

New

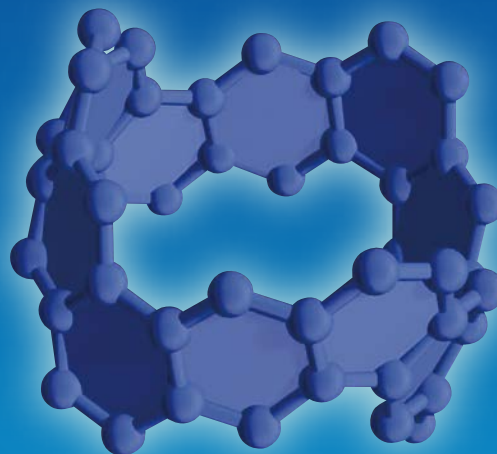
MATERIALS



Next-Generation Carbon Material with Infinite Potential (6,6)Carbon Nanobelt



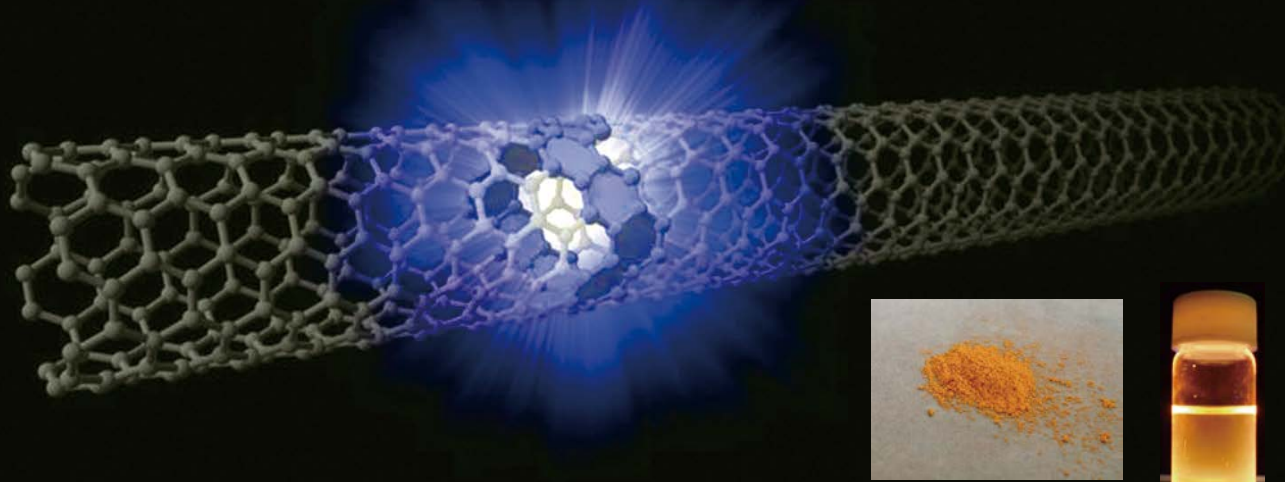
[I1078]



Advantages

- New carbon material synthesized for the first time in 2017 after over 60 years of challenges.
- Rigid belt structure with 12 fully fused benzene rings
- Partial structure of armchair-type carbon nanotube (CNT)
- (6,6)Carbon Nanobelt has properties similar to (6,6)CNT
- Red light emission: $\lambda_{em} = 630 \text{ nm}$
($\lambda_{ex} = 500 \text{ nm}$ in CH_2Cl_2)

Highlighted in Nature, SPOTLIGHT 06 December 2017



G. Povie, Y. Segawa, T. Nishihara, Y. Miyauchi, K. Itami, *Science* **2017**, 356, 172.

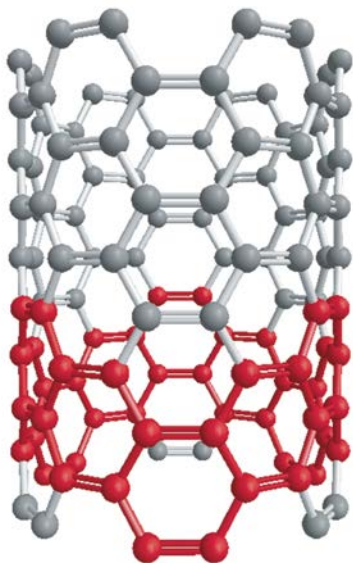
(6,6)Carbon Nanobelt Bis(tetrahydrofuran) Adduct

10mg [I1078]

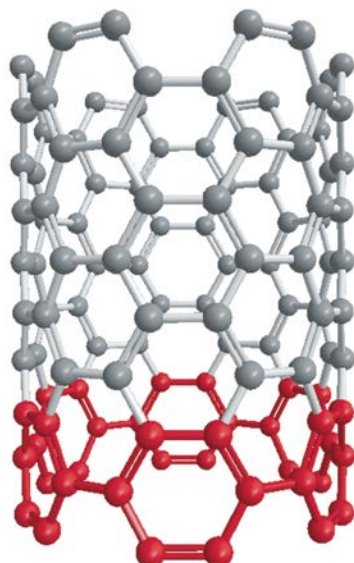
This product was produced by collaboration with Prof. Kenichiro Itami and Assoc. Prof. Yasutomu Segawa at Nagoya University.

Nanocarbon Unit Structures

[Carbon nanotube unit structure]

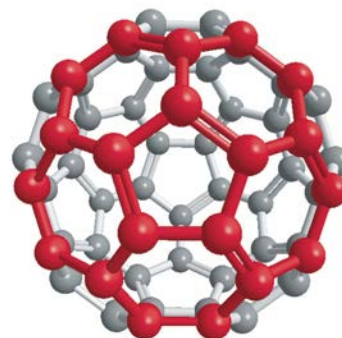


Carbon Nanobelt



Cycloparaphenylene

[Fullerene unit structure]

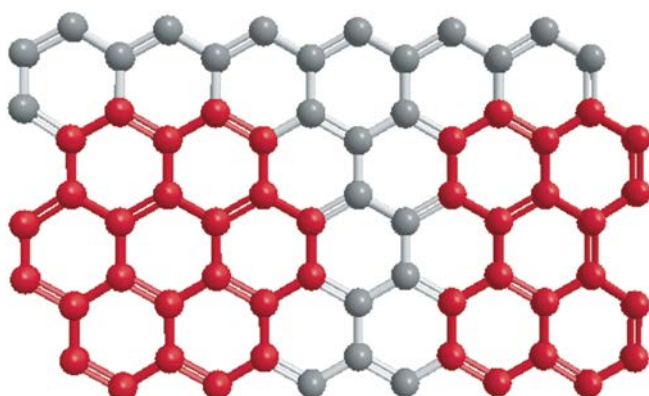


Corannulene



Truxene

[Graphene unit structure]



Coronene

Perylene

Related Products

[5]Cycloparaphenylene

[6]Cycloparaphenylene

[12]Cycloparaphenylene

Corannulene

Truxene

Coronene (purified by sublimation)

Perylene (purified by sublimation)

20mg / 100mg [C2931]

20mg [C3386]

10mg [C2449]

20mg / 100mg [C2572]

100mg / 1g [T2752]

100mg [C1961]

1g [P1629]

For further information please refer to our website at www.TCIchemicals.com.

nanocarbon



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