Heterocyclic nanographenes and other polycyclic heteroaromatic compounds: synthetic routes, properties, and applications.

Autorzy

Marcin Stępień

Elżbieta Gońka

Marika Żyła

Natasza Sprutta

Rok wydania

2017

Czasopismo

Chemical Reviews

Numer woluminu

117

Strony

3479-3716

DOI

10.1021/acs.chemrev.6b00076

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

Two-dimensionally extended, polycyclic heteroaromatic molecules (heterocyclic nanographenes) are a highly versatile class of organic materials, applicable as functional chromophores and organic semiconductors. In this Review, we discuss the rich chemistry of large heteroaromatics, focusing on their synthesis, electronic properties, and applications in materials science. This Review summarizes the historical development and current state of the art in this rapidly expanding field of research, which has become one of the key exploration areas of modern heterocyclic chemistry.

Adres publiczny

http://dx.doi.org/10.1021/acs.chemrev.6b00076

Strona internetowa wydawcy

https://www.acs.org/content/acs/en.html