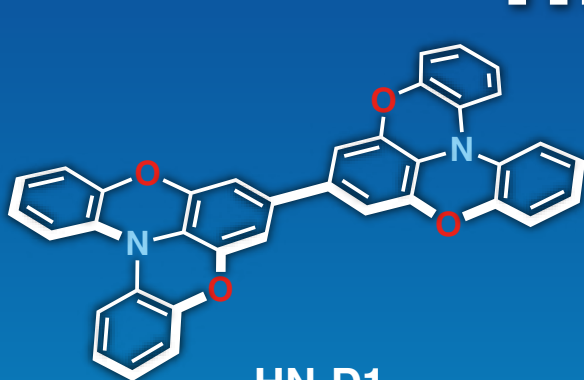
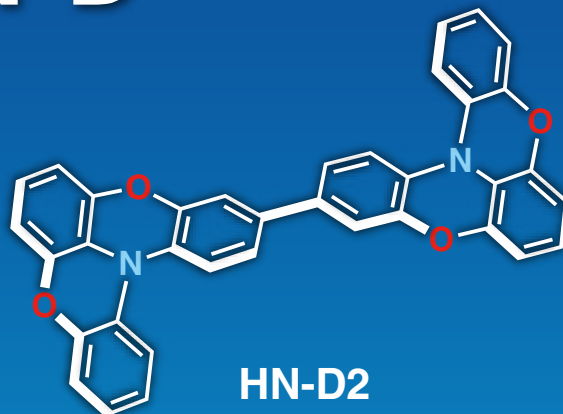


# Pseudoplanar Hole Conductor HN-D



**HN-D1**  
[B4908]

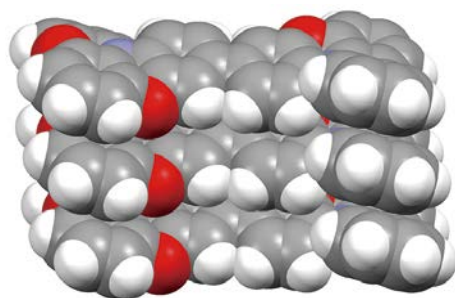


**HN-D2**  
[B4907]

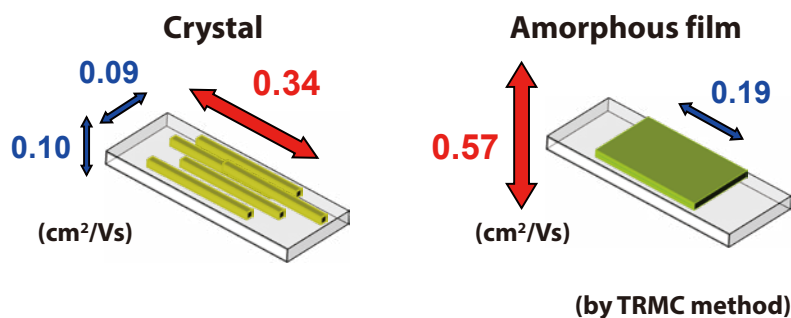
## Advantages

- On-top  $\pi$ -stack structure by one-dimensionally arranged molecules in crystal
- Anisotropic mobility in amorphous film
- The amorphous film shows high carrier mobility perpendicular to the device layer

## Application



### Anisotropy of carrier mobility (B4907)



A. Wakamiya, H. Nishimura, T. Fukushima, F. Suzuki, A. Saeki, S. Seki, I. Osaka, T. Sasamori, M. Murata, Y. Murata, H. Kaji, *Angew. Chem. Int. Ed.* **2014**, *53*, 5800-5804.  
A. Wakamiya, H. Nishimura, Y. Murata, T. Fukushima, H. Kaji, Kyoto University, JP Patent 5591996.

**HN-D1 (= 7,7'-Bi[1,4]benzoxazino[2,3,4-k']phenoxazine)**

200mg / 1g [B4908]

**HN-D2 (= 3,3'-Bi[1,4]benzoxazino[2,3,4-k']phenoxazine)**

200mg / 1g [B4907]

These products were commercialized by collaboration with Prof. Atsushi Wakamiya at Institute for Chemical Research, Kyoto University.

For further information please refer to our website at [www.TCIchemicals.com](http://www.TCIchemicals.com).



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