

(IP) and the acceptor electron affinity (EA), IP - |EA|. Interestingly, a well-defined, *linear* relationship between the amount of charge transfer and IP - |EA| is obtained when the IP and EA values are adjusted to reflect intramolecular geometric changes in the final form of the complex. This study offers a straightforward way to match donor-acceptor pairs with desired doping effects and to estimate the resulting charge density in organic semiconductors.

Keywords: molecular doping; charge transfer; molecular complexes; organic semiconductors; IP-EA offset; DFT



1155 Sixteenth Street N.W. Washington, DC 20036 Products Journals A-Z Books C&EN C&EN ACS Archives ACS Legacy Archives ACS Mobile Video User Resources About Us ACS Members Librarians Authors & Reviewers Website Demos

Support Get Help For Advertisers Institutional Sales



Search ACS Publications Search Anywhere

Search

Copyright © 2012 American Chemical Society