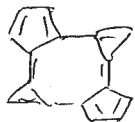


Oct 6, 1988

Creation of New Structure and New Functions

Zensho Yoshino (Kyoto Univ)

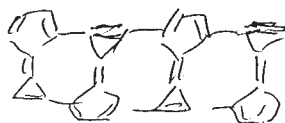


Cyclo Bicalin (CBC)
167 points

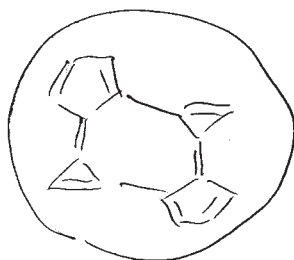
$$\delta\chi = -2.63 \times 10^{-24}$$



CTC



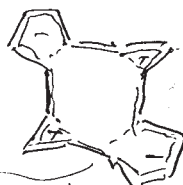
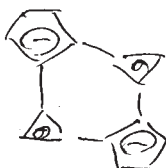
C2C



Coplana,
No Bond Alternation
Dipole
 $\delta\chi = -2.63 \times 10^{-24}$



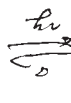
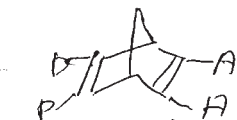
RRE - 0.1028 (≈ 0.352 kcal)
CCT RE - 0.29 for 16 Annular



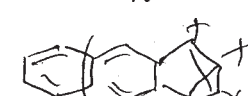
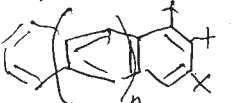
(perturbed tetrapolar, 46% annular)

alternate tetrapolar structure
($\approx 50\%$ contribution to the ground state)

Visible band Transmittance

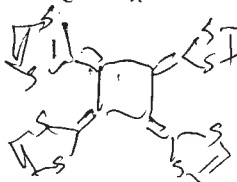


PONAOC } Photo-energy storage

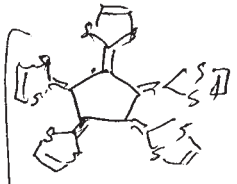


} Photomemory

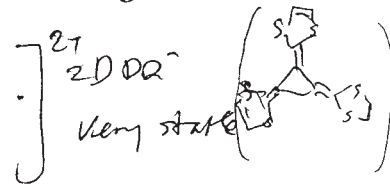
Radical Chemistry



Down for Organic Metal



ground state triplet promising organic ferromagnetic system



Very stable