



## Testing Molecular Wires

By Mateusz Wielopolski

Springer-Verlag GmbH Sep 2010, 2010. Buch. Book Condition: Neu. 252x164x15 mm. Neuware - One of the major challenges in current chemistry is to find molecules able to move charges rapidly and efficiently from, for example, one terminus to another one under the control of an external electrical, electrochemical or photochemical stimulus. Nature has provided impressive examples of how these goals are achieved. The photosynthetic reaction center protein, for instance, rapidly moves electrons with near unity quantum efficiency across a lipid bilayer membrane using several redox cofactors, and thus, serves as a model for developing biomimetic analogues for applications in fields such as photovoltaic devices, molecular electronics and photonic materials. In this context, p-conjugated oligomeric molecular assemblies are of particular interest because they provide efficient electronic couplings between electroactive units - donor and acceptor termini - and display wire-like behavior. In order to make a molecule able to behave as an ideal molecular wire different requirements need to be fulfilled: i) matching between the donor (acceptor) and bridge energy levels, ii) a good electronic coupling between the electron donor and acceptor units via the bridge orbitals, and iii) a small attenuation factor. Among the many different p-conjugated...

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