Abstract for an Invited Paper
for the MAR11 Meeting of
The American Physical Society

Organic and hybrid organic-inorganic photovoltaic cells
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The performance and limitations of the world’s best organic and dye sensitized solar cells will be presented along with plans to increase the energy conversion efficiency to 15%. Topics of more detailed discussion could include the formation of polymer-fullerene co-crystals and their implications for recombination, the use of energy transfer to improve light harvesting in dye sensitized solar cells, solution deposited transparent electrodes or the use of plasmonics to improve light absorption.