

4th International Conference on

PHYSICAL AND THEORETICAL CHEMISTRY

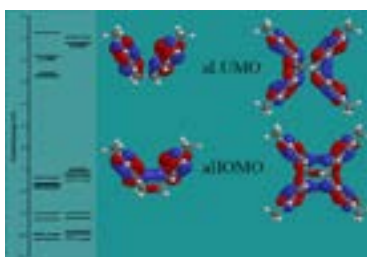
September 18-19, 2017 Dublin, Ireland

Pyridinium salts as photo-induced electron traps

R Marshall Wilson

Bowling Green State University, USA

When two or more pyridinium salts are held face-to-face to each other they will share electrons equally between the rings. Calculations show this distribution of the trapped electron for the dimethyl 1,2-(di-4-pyridinium) ethane and the tetramethyl 1,1,2,2-(tetra-4-pyridinium) ethane as shown below. The electron trapping properties as characterized in ultrafast transient absorption spectroscopy and theoretical calculations for a variety of polypyridinium salts will be discussed.



Biography

R Marshall Wilson is a Research Professor in Chemistry department at Bowling Green State University, USA. He was awarded PhD in the year 1965 from Massachusetts Institute of Technology. His research interests are directed towards photochemical application of lasers, primarily argon ion lasers, and fall into two broad categories: the laser synthesis of new materials and the development of reagents for the photochemical manipulation of biological systems.

rmw@bgsu.edu

Notes: