

**Long-range thermal and optical electron
transfer: perspectives from theory and
computational modelling**

Marshall Newton¹

¹Brookhaven National Laboratory
Department of Chemistry
Box 5000
Upton, NY 11973
US

Electronic and energetic factors controlling electron transfer (ET), both thermal and optical, are formulated and illustrated for several donor/bridge/acceptor systems comprised of organic and inorganic moieties. The influence of bridge length and conformation on ET kinetics is examined, and the relevance to ET through peptide and DNA-based systems is discussed.

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