

Electron Transfer at Interfaces

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Recent studies by our group on electron transfer at interfaces are described, including a theory by S. Gosavi on the charge transfer inverse photoemission effect, in which both surface and bulk states of the metal are invoked. Also discussed is electronic nonadiabatic electron transfer across alkanethiol monolayers, between metal and several metal inorganic redox agents, and its dependence or lack of dependence on the electronic density of states in the metal. Possible implications for analogous studies of dissociative electron transfer of organic halides will be considered. These studies were made in collaboration with S. Gosavi and Y. Q. Gao. The research was supported by ONR and NSF.

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