Fast Measurements of Electronic Tunneling Through Organic Molecules

- Tunneling through conjugated molecules can be a million times faster than tunneling through saturated organic molecules, and a thousand times faster than the response of traditional electrochemical methods.

- Patterned gold microelectrodes allow electrochemical rate constants in the tens to hundreds of nanoseconds to be measured.

Dave Robinson and Chris Chidsey
Stanford Chemistry Dept.
NNUN Site: Stanford University