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Nanoelectronics covers a diverse set of devices and materials, with the common characteristic that they are so small that physical effects alter the materials' properties on a nanoscale – inter-atomic interactions and quantum mechanical properties play a significant role in the workings of these devices.

Nanoelectronics - Definition and Applications

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Current-driven desorption at the organic molecule ...

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We use an ab initio nonequilibrium formalism and the example of Au-C₆₀-Au junctions to illustrate the strongly correlated phenomena of current-driven dynamics and time-dependent conductance in nanoelectronics, noting implications to, and potential applications in, several disciplines.

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For an introduction to the problem of current-driven phenomena in nanoelectronics please see the review by Jorn and Seideman, Seideman and Guo, and Seideman. For more information please see the following book . Current-driven desorption of hydrogen from corrugated hydrogenated graphene

Quantum Dynamics in Conduction Junctions – The Seideman Group

Tamar Seideman (Hebrew: [תמר זיידמן](#); born November 26, 1959) is the Dow Chemical Company Professor of Chemistry at Northwestern University. She specialises in coherence spectroscopies and coherent control in isolated molecules, as well as nanoplasmonics and mathematical models.

Tamar Seideman - Wikipedia

One example is current-induced local heating in the molecule, which is the subject of this chapter. By measuring the thermal stability of the electrode-molecule contact, the effective temperature of a molecular junction can be determined experimentally.

Current-induced local heating in molecular junctions ...

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