Molecular electronics on its way to RF

Abstract:
Molecular devices have lately attracted increasing attention due to some appealing features such as their low production cost, flexibility in the substrate choice, possibility of large area deployment, and possibly higher integration capabilities. While it has been commonly thought that such devices could only display poor frequency performance, recent results have indicated that RF applications are possible. Starting from a series of simulation results obtained from our groups, we will illustrate some of the most promising candidates in the novel field of RF molecular electronics.
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