

MONO-MOLECULAR ELECTRONICS: A CHEMIST'S VIEW

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The development of mono-molecular electronic will require large and complex molecules immobilized at very specific places on a solid substrates. It implies an important effort on the design and synthesis of large and rigid molecules, and to solve numerous problems such as: low solubility, compactness, transfer to the substrate, interaction with the (pre-patterned) surfaces, mobility, auto-organization, 2D intermolecular couplings and chemistry etc... In this presentation, we will address all the facets of these tasks and propose some realistic solutions.