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Interaction between perylene-derivated molecules observed by low temperature scanning tunneling microscopy

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**Highlights**

- Perylene derivative molecules were investigated as two-dimensional models in the localization and interaction of local charges
- Intermolecular interactions induced by the peculiar structure of the molecule peripheral groups lead to the formation of characteristic trimers at ambient temperature on an Ag(111) surface
- The perylene-derivated peripheral groups were localized on single molecules by STM observations and image calculations
- The relative position of the frontier orbitals with respect to the Fermi level changes after the formation of small molecular clusters on ultrathin films of NaCl

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