SURFACE MODIFICATION OF MATERIALS WITH NANOMETRIC ORGANIC LAYERS

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Research lines

- Electro-chemical modification of the surfaces of materials with 2D nanometer organic films derived from aryl diazonium salts and some other organic moieties. The method is easy to perform and is compatible with a wide range of materials of massive electrodes made on carbon, metals, semiconductors and nanomaterials surfaces including graphene, carbon nanotubes, gold nanoparticles, gold nano-rods, quantum dots.
- Use of the strongly attached organic layers to prepare nano-composites for various applications in bio-sensing, micro and molecular electronics or as a platform for post modifications.