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Fabrication and Electrical Characterization of Molecular Junctions

By Franklin Anariba

VDM Verlag. Paperback. Book Condition: New. Paperback. 124 pages. Dimensions: 8.7in. x 5.9in. x 0.3in. At a time when graphene with its particular electronic properties have brought about a renewed and strong interest in carbon materials in the research community, this book on graphitic carbon and its applications in the elucidation of electron transport mechanisms in molecular junctions is of significant importance. In addition to presenting a novel type of molecular electronic junction, the results bear on the widespread topic of electronic conductivity of organic molecules sandwiched between metallic electrodes. The electrical properties of organic molecules are addressed by fabricating carbon molecule metals junctions, followed by electrical characterization of the resulting devices, whereby variables such as molecular structure, monolayer thickness, temperature, choice of top metal contact, junction design and configuration, are all addressed. The developed platform affords molecular junctions with high yield and low relative standard deviations that strongly suggest molecular structure plays a pivotal role in their electrical properties. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Paperback.



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