Subrata Sengupta is a professor of organic chemistry at the University of Florida. He has published more than 275 papers that have appeared in over 100 peer-reviewed journals, nine book chapters, and three books. This article presents his paper titled "A General Approach to Hybridizing Carbon Nanotubes". The article discusses the ways that nanotube hybridizations can be used "to generate a wide variety of materials" from polymers to metals. The author also continues with describing the different types of hybridizations that can be achieved through various isomerization pathways. Specifically he writes, Through the selective replacement of atoms and functional groups with atoms and functional groups having similar chemical properties but different electronic properties, it is possible to generate a wide variety of materials including polymers, metals. The following sections describe the different types of hybridizations that can be achieved by isomerizing different parts of a molecule. Shown below is a table containing a summary of the different types of hybridizations that Subrata Sengupta describes in his article.

The author continues on to mention the differences between amorphous polymers and crystalline polymers as well as organic and inorganic materials. He mentions the primary functional groups of polymers such as carbonyls and aromatic rings. The article also goes into an example of hybridization where the hybridized carbon nanotubes are used for production of a lithium battery. The article concludes with mentioning how other industries, including "in-vitro diagnostics, energy conversion and storage, electronics, sensing, telecommunications" can benefit from nanotube hybrids.

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