

Review of: "Therefore, a variety of bio-chemical structures have the characteristic of a nano-reactor"

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Numerous and simultaneous reactions in the cells of living things are also based on this principle. Therefore, a variety of bio-chemical structures have the characteristic of a nano-reactor.

The Reasons and Benefits of Using Macroscopic Scale Reactors and Nano-Reactors is a chamber chemical reactor that enables the reaction to be carried out in a given volume. The advantages of the reactor allow for precise control of reaction conditions such as solvent, temperature, and stirring rate. At the micro- and nano- scale , chambers can also be created that separate a certain volume of the reaction mixture from the mass medium (Medium Bulk). Deemed to be. Advantages of using nano-reactors include greater control over the reactivity, selectivity, removal of porous materials, and electronic conduction of nano-materials from the mass medium, thereby reducing system toxicity or enhancing catalyst stability and being ideal in electrochemical processes. Noted because of their small size.

Conclusion :

In general, nanostructures of a certain size, shape, and geometry have unique properties different from those of bulk materials . Using nanometer- and micrometer-sized reaction environments, they can produce new nanomaterials with interesting properties. In general, nano-reactors are nanometer-sized chambers in which chemical reactions can be performed. Of course, nano-reactors are, in some ways, part of the reaction, and their main difference is with the micro-reactors. The use of porous materials is one of the useful solutions for achieving the environment of nano-reactors. Therefore, due to the importance of nano-reactors, the porous structures of silicate and zeolite are the most prominent and widely used compounds in this group .

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