

New Technologies Based on Biomimetic and Bioinspiration

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Biomimetic field is study of nature and natural phenomena to realize the principles of mechanisms, to obtain ideas from nature and to apply concepts that may benefit science, medicine, engineering, etc. Since the rapid rate of industrialization affects human survival, biomimetic and bioinspiration are the best methods that potentially may solve the problems on pollution and lack of resources with the best performance among the other developed products. The basis of biomimetic is recreate and reproduce some biological aspects like structure-function relations observed in living entities and ultimately to bioinspiration, that structural properties and their functions are pushed to new levels, beyond what nature offers. Nature has experiences of billion years, human can learn and imitate from this great bank of ideas, and equip with its strategies and designs. Biomimetics and bioinspiration help us to create an economy which follows natural evolution with more biodegradable and biocompatible products. This pathway should be lifestyle for better life.

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