

biological and bio inspired pdf

Biological control or biocontrol is a method of controlling pests such as insects, mites, weeds and plant diseases using other organisms. It relies on predation, parasitism, herbivory, or other natural mechanisms, but typically also involves an active human management role. It can be an important component of integrated pest management (IPM) programs.. There are three basic strategies for ...

Biological pest control - Wikipedia

Biomimetics or biomimicry is the imitation of the models, systems, and elements of nature for the purpose of solving complex human problems. The terms "biomimetics" and "biomimicry" derive from Ancient Greek: βίος (bíos), (bios), life, and μίμησις (mímēsis), (mimos), imitation, from μέθοδος (méthodos) (mēthodós), (mēthodós), to imitate, from μίμος (mimos), (mimos), actor. A closely related field is bionics.

Biomimetics - Wikipedia

From a desire to develop breakthrough technologies for water filtration and purification, researchers have developed membranes with artificial channels inspired by the proteins that form the pores ...

Artificial bio-inspired membranes for water filtration

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Nowadays a lot of different subjects are classified in the "bio" area: from materials inspired by biological microstructures for high-tech applications, to artificial bio-compatible tissues, from the imitation of efficient movements of some animal species to the design of surfaces for superior biocompatibility and many more could be cited.

BioMM - First International Conference on Materials

About IWBD. The Tenth International Workshop on Bio-Design Automation (IWBD) will bring together researchers from the synthetic biology, systems biology, and design automation communities to discuss concepts, methodologies and software tools for the computational analysis and synthesis of biological systems.. The field of synthetic biology, still in its early stages, has largely been driven ...

IWBDA: International Workshop on Biodesign Automation

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IWBDA: International Workshop on Biodesign Automation

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Gold Nanoparticles in Chemical and Biological Sensing

SyNAPSE is a DARPA-funded program to develop electronic neuromorphic machine technology that scales to biological levels. More simply stated, it is an attempt to build a new kind of computer with similar form and function to the mammalian brain. Such artificial brains would be used to build robots whose intelligence matches that of mice and cats.

DARPA SyNAPSE Program - Artificial Brains

This review reports the recent advances in the most important and straightforward synthetic protocols for incorporating catechols into (bio)polymers, and discusses the emerging applications of these innovative multifunctional materials in biomedical, energy storage and environmental applications.

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