



Biomolecular Electronics: An Introduction via Photosensitive Proteins (Bioengineering of Materials)

Nikolai Vsevolodov

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The properties of materials depend on the nature of the macromolecules, small molecules and inorganic components and the interfaces and interactions between them. Polymer chemistry and physics, and inorganic phase structure and density are major factors that influence the performance of materials. In addition, molecular recognition, organic-inorganic interfaces and many other types of interactions among components are key issues in determining the properties of materials for a wide range of applications. Materials requirements are becoming more and more specialized to meet increasingly demanding needs, from specific environmental stresses to high performance or biomedical applications such as matrices for controlled release tissue scaffolds. One approach to meet these performance criteria is to achieve better control over the tailoring of the components and their interactions that govern the material properties. This goal is driving a great deal of ongoing research in material science laboratories. In addition, control at the molecular level of interactions between these components is a key in many instances in order to reach this goal since traditional approaches used to glue, stitch or fasten parts together can no longer suffice at these new levels of manipulation to achieve higher performance. In many cases, molecular recognition and self-assembly must begin to drive these processes to achieve the levels of control desired. This same need for improved performance has driven Nature over millennia to attain higher and higher complexity.

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