Engineer Biology for New Materials

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地点：化学学院A205

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摘 要

A central question facing the bottom-up approach for material design is how to faithfully transfer the function at the molecular level to the material properties at the macroscopic level. Natural evolution has led to the creation of a variety of protein molecules with diverse functionality, which furnishes us with great tools to tackle the fundamental challenge facing materials science, and perhaps the science of life. Drawing on some emerging synthetic biology principles, we focus on the strategies that enable the conversion of engineered protein molecules into smart materials for various applications, ranging from optogenetic control to regenerative medicine.

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