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Beginning with an overview of natural photonic structures, Optical biomimetics goes on to discuss optical applications of biomolecules, such as retinylidene and bacteriorhodopsin, polarisation effects in natural photonic structures and their applications, and biomimetic nanostructures for anti-reflection (AR) devices.

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Optical and optoelectronic materials play a crucial role in current and future technologies. New developments and breakthroughs in the growth, fabrication, and synthesis of these materials coupled with the characterization of their optical and electronic properties are important for the advancement of a wide range of applications.

Optical Biomimetics | ScienceDirect

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Optical Biomimetics : Materials and Applications

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Bioinspiration & Biomimetics - IOPscience

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: $\beta\iota\omicron\varsigma$ (bios), life, and $\mu\iota\mu\eta\sigma\iota\varsigma$ ($\mu\iota\mu\eta\sigma\iota\varsigma$), imitation, from $\mu\iota\mu\eta\sigma\iota\varsigma$ ($\mu\iota\mu\eta\sigma\iota\varsigma$), to imitate, from $\mu\iota\mu\eta\sigma\iota\varsigma$ ($\mu\iota\mu\eta\sigma\iota\varsigma$), actor. A closely related field is bionics.

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