



# Engineered Biomimicry: Chapter 12. Biomimetic Antireflection Surfaces

*Blayne M. Phillips, Peng Jiang*

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The compound eyes of moths are composed by hexagonal arrays of non-close-packed nipples that exhibit low reflectance. The outer surface of the cornea of a moth consists of periodic arrays of conical protuberances, termed corneal nipples, typically of sub-250nm height and spacing. These arrays of subwavelength nipples generate a graded transition of refractive index, leading to minimized reflection over a broad range of wavelengths and angles of incidence. In this chapter, the fabrication, characterization, and modeling of moth-eye antireflection coatings on both transparent substrates (e.g., glass) and semiconductor wafers (such as crystalline silicon and GaAs) are discussed.

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