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ON THE COVER



Superimposed optical and scanning electron micrographs of the mineralized protective armor plates of the chiton *Acanthopleura granulata*. Coincident with the dark pigments are image-forming

lenses primarily composed of aragonite, in marked contrast to the protein-based eyes of most animals. In addition to providing mechanical protection, such design simultaneously allows the organism to monitor potential predatory attacks through optical vision. See pages 899 and 952. *Image: Ling Li*

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