

The Splendor Of Iridescence: Structural Colors In The Animal World

Hilda Simon

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Animal coloration; Biological photonic structures; Biological structural color; Bio-optics; Bio-photonics Intense and bright colors result from the interaction of light with periodic micro- and nanostructures. Structural colors in the animal kingdom have attracted increasing research interest in recent years. Biological organisms offer an enormous variety of periodic micro- and nanostructures that by specific interaction with light provide distinct coloration. This sometimes dynamic reflectivity is... Parker, A.R., McPhedran, R.C., McKenzie, D.R., Botten, L.C., Nicorovici, N.P.: Aphrodites iridescence. Part One: The anatomy of structural colors -- The ABC of light and color -- A history of color -- The blue birds -- The mechanics of iridescence -- Part Two: The beauty of iridescence -- Iridescent colors in the animal world -- The bird of Juno: the Peacock -- The bird of Quetzalcoatl: the Quetzal -- Flying jewels: Hummingbirds -- The nectareaters: Sunbirds -- The Madagascan marvel: Urania moths -- The blue butterflies: Morphoes -- The gold bugs: Iridescent beetles.

which animals produce color: through pigments, structural colors or bioluminescence. 2. Fig. 2 Structural colorations in nature. (a) Base of *H. trionum* petal, showing iridescence overlying the red pigment, shown in the inset; 16. (b) blue iridescence is prevalent in the fern-like tropical understory plants of the genus *Selaginella*; 17.