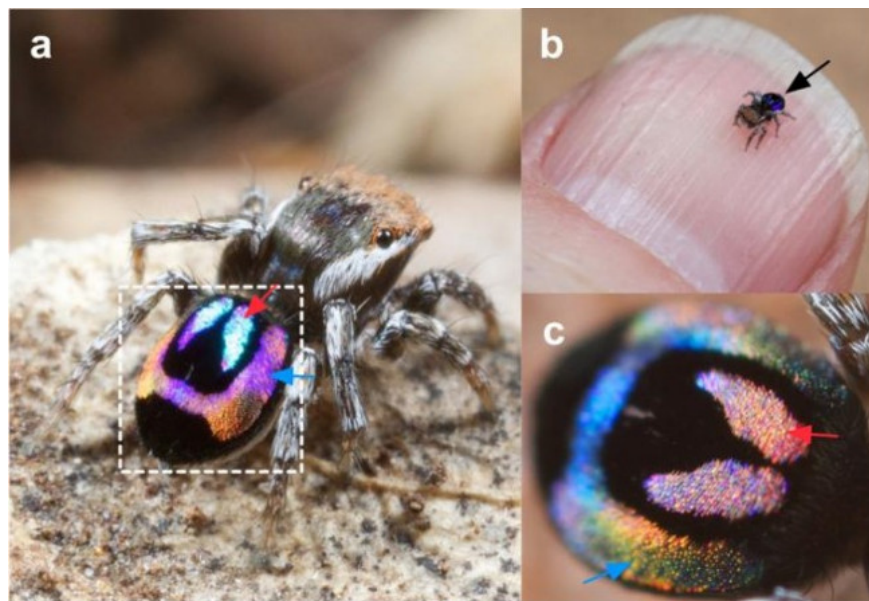


# Spiders emit rainbows from the abdomen causing fever

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Rainbow spiders (*Maratus robinsoni*) especially male spiders have a neat body, capable of delivering high intensity rainbow signals in courtship between males and females. This is the first example known in nature when male spiders use all color rainbow to entice females. Dr. Bor-Kai Hsiung led a group of international researchers from the United States (Uakron, Cal Tech, UC San Diego, UNL), Belgium (Ghent University), Netherlands (UGroningen) and Australia to examine the spider spawns this rainbow signal.



Using a variety of research techniques, including electron and light microscopy, hyperspectral imaging, dispersive imaging, 3D nano printing and optical modeling, the team discovered the rise of High intensity rainbow effects appear from the special abdominal area of ??this spider. These rainbow scales have a very small 3D contour with a knit microscope border that turns into nanotube grating structures on the surface.

In the analysis, the scientists found an interaction between the surface-diffracting nanoscale grating mask and microscopic curvature that allows the separation and isolation of light into wavelengths at better angles and smaller distances. than current artificial engineering technologies.

The inspiration from ultraviolet translucent scales on this rainbow spider can be used to overcome current limitations in manipulating spectral analysis in applications that require spectral resolution at a very small scale. especially space devices, chemical detection systems. And the study of light on this particular spider may have many implications for different fields, from life sciences and biotechnology to material and engineering sciences.

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