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Title

Correction for Krishna et al., Infrared optical and thermal properties of microstructures in butterfly wings

Permalink

<https://escholarship.org/uc/item/6cf7b14g>

Journal

Proceedings of the National Academy of Sciences of the United States of America, 118(35)

ISSN

0027-8424

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Publication Date

2021-08-31

DOI

10.1073/pnas.2113284118

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Peer reviewed

Correction

ECOLOGY, ENGINEERING

Correction for “Infrared optical and thermal properties of microstructures in butterfly wings,” by Anirudh Krishna, Xiao Nie, Andrew D. Warren, Jorge E. Llorente-Bousquets, Adriana D. Briscoe, and Jaeho Lee, which was first published January 9, 2020; 10.1073/pnas.1906356117 (*Proc. Natl. Acad. Sci. U.S.A.* **117**, 1566–1572).

The authors note that “We wish to correct a mistake in Fig. 4 discovered after publication in the units used to compute the

Rigorous Coupled-Wave Analysis (RCWA) results (dotted lines) shown in Fig. 4E. The authors thank the reader who also noticed the use of the incorrect unit in the previously shared RCWA code. The online version of the RCWA code has been corrected.”

The corrected Fig. 4 and its corrected legend appear below. The online version has been corrected.

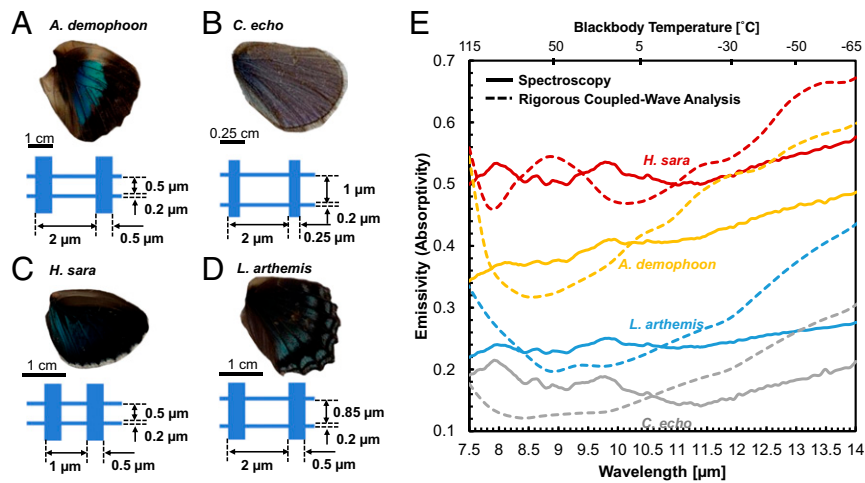


Fig. 4. Experimental and computational emissivity data between 7.5 and 14 μm wavelengths (within the atmospheric transmission spectrum) for the sample butterfly species (with schematics for the specimens) for (A) *A. demophoon*, (B) *H. sara*, (C) *C. echo*, and (D) *L. arthemis*. (E) The emissivity values are computed using RCWA based on structural dimensions (A–D) from SEM imaging. The emissivity values are plotted with respect to the wavelength and corresponding blackbody temperature [calculated using the Wien’s displacement law (75)]. Both the measured and computed emissivity values indicate distinct differences among the four butterfly species.

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Published August 24, 2021.

www.pnas.org/cgi/doi/10.1073/pnas.2113284118

CORRECTION