

How do substrates affect vibration signalling and what influence does this have on animal sensory systems and behaviour?

Reading list

Review, with many relevant references:

Hill, P. (2009), How do animals use substrate-borne vibrations as an information source? *Naturwissenschaften*, 96, pp. 1355-1371.

Pick of articles covering range of systems:

Casas, J., Magal, C. and Sueur, J. (2007), Dispersive and non-dispersive waves through plants: implications for arthropod vibratory communication, *Proc. R. Soc. B*, 274, pp. 1087-1092.

Fertin, A. and Casas, J. (2007), Orientation towards prey in antlions: efficient use of wave propagation in sand, *JEB*, 210, pp. 3337-3343.

Landolfi, M. A. and Barth, F. G. (1996), Vibrations in the orb web of the spider *Nephila clavipes*: cue for discrimination and orientation, *J Comp Physiol A*, 179, pp. 493-508.

Magal, C., Schoeller, M., Tautz, J., Casas, J. (2000), The role of leaf structure in vibration propagation, *J. Acoust. Soc. Am.*, 108 (5), pp. 2412-2418.

O'Connell-Rodwell, C. E., Arnason, B. T., Hart L. A. (2000) Seismic properties of Asian elephant (*Elephas maximus*) vocalizations and locomotion, *J. Acoust. Soc. Am.*, 108 (6), pp. 3066-3072.

Tautz, J. Casas, J. and Sandeman, D. (2002), Phase reversal of vibratory signals in honeycomb may assist dancing honeybees to attract their audience, *JEB*, 204, pp. 3737-3746.

Vollrath, F. (1979), Vibrations: Their signal function for a spider kleptoparasite, *Science*, 205 (4411), pp. 1149-1151.