

Canopy Access Crane Bibliography

Updated December 15, 2020

This is a list of publications that are attributed to research done on the Canopy Access Cranes in San Lorenzo National Park and Parque Natural Metropolitano by the Smithsonian Tropical Research Institute (or earlier research). The publications are grouped by year and sorted alphabetically by first author, with known Smithsonian Tropical Research Institute researchers marked in bold. The data are generated from [Smithsonian Research Online](#), provided by the Smithsonian Libraries and Archives. Reports are generated on a quarterly basis and may not include the most recent publications.

2020

Janzen, Thijs, **Zotz, Gerhard**, and Etienne, Rampal S. 2020. "[Community structure of vascular epiphytes: a neutral perspective.](#)" *Oikos* 1–31. <https://doi.org/10.1111/oik.06537>

Parolari, Anthony J., Paul, Cassandra, Griffing, Aaron, **Condit, Richard, Pérez, Rolando, Aguilar, Salomón, and Schnitzer, Stefan A.** 2020. "[Liana abundance and diversity increase with rainfall seasonality along a precipitation gradient in Panama.](#)" *Ecography* 43 (1):25–33. <https://doi.org/10.1111/ecog.04678>

2019

Cid, Patricia, Casini, Leonardo, **Leon, Santiago**, Gómez, S., **Jaramillo, Carlos**, Baroni, Mirta Linero, and Scalici, Maria. 2019. "Conservación del legado técnico cultural del real cuerpo de ingenieros en Panamá: el patrimonio fortificado de Portobelo y San Lorenzo." in *Le Mura Urbane Crollano: Conservazione e Manutenzione Programmata della Cinta Muraria dei Centri Storici*, edited by Di Silvo, M. and Ladiana, D., 193–217. Pisa: Italia: Pisa University Press.

Correa A., Mireya D., Galdames, Carmen, and Campos-Pineda, Ernesto. 2019. *Hierbas, bejucos y lianas en el parque natural metropolitano, Panama*. First Edition ed. Smithsonian; Universidad de Panama.

Cusack, Daniela F., Ashdown, Daniel, Dietterich, Lee H., Neupane, Avishesh, **Ciochina, Mark,** and **Turner, Benjamin L.** 2019. "[Seasonal changes in soil respiration linked to soil moisture and phosphorus availability along a tropical rainfall gradient.](#)" *Biogeochemistry* 1–20. <https://doi.org/10.1007/s10533-019-00602-4>

Dickman, Lee Turin, McDowell, Nate G., Grossiord, Charlotte, Collins, Adam D., **Wolfe, Brett T., Detto, Matteo, Wright, S. Joseph**, Medina-Vega, José A., Goodsman, Devin, Rogers, Alistair, Serbin, Shawn P., Wu, Jin, Ely, Kim S., Michaletz, Sean T., Xu, Chonggang, Kueppers, Lara, and Chambers, Jeffrey Q. 2019. "[Homoeostatic maintenance of nonstructural carbohydrates during the 2015–2016 El Niño drought across a tropical forest precipitation gradient.](#)" *Plant, Cell & Environment* 1–10. <https://doi.org/10.1111/pce.13501>

- Einzmann, Helena J. R., Schickenberg, Nina, **Zotz, Gerhard**, Einzmann, Helena J. R., Schickenberg, Nina, and **Zotz, Gerhard**. 2019. "[Variation in root morphology of epiphytic orchids along small-scale and large-scale moisture gradients.](https://doi.org/10.1590/0102-33062019abb0198)" *Acta Botanica Brasilica* 1–8. <https://doi.org/10.1590/0102-33062019abb0198>
- González, Cely T., Saltonstall, Kristin, and Fernández-Marin, Hermogenes**. 2019. "[Garden microbiomes of *Apterostigma dentigerum* and *Apterostigma pilosum* fungus-growing ants \(Hymenoptera: Formicidae\).](https://doi.org/10.1007/s12275-019-8639-0)" *Journal of Microbiology (Seoul, Korea)* 1–10. <https://doi.org/10.1007/s12275-019-8639-0>
- Larsen, Matthew C.** 2019. "Prologo." in *Hierbas, bejucos y lianas en el parque natural metropolitano, Panama*, First Edition ed. iv–v. Panama: Smithsonian; Universidad de Panama.
- Menge, Duncan N. L., **Chisholm, Ryan A., Davies, Stuart J., Salim, Kamariah Abu, Allen, David, Alvarez, Mauricio, Bourg, Norm, Brockelman, Warren Y., Bunyavejchewin, Sarayudh, Butt, Nathalie, Cao, Min, Chanthorn, Wirong, Chao, Wei-Chun, Clay, Keith, Condit, Richard S., Cordell, Susan, da Silva, João Batista, Dattaraja, H. S., de Andrade, Ana Cristina Segalin, de Oliveira, Alexandre A., Hubbell, Stephen P., Jansen, Patrick A., Novotny, Vojtech, Tan, Sylvester, Valencia, Renato** et al. 2019. "[Patterns of nitrogen-fixing tree abundance in forests across Asia and America.](https://doi.org/10.1111/1365-2745.13199)" *Journal of Ecology* 107 (6):2598–2610. <https://doi.org/10.1111/1365-2745.13199>
- Royer, Dana L., Moynihan, Kylen M., McKee, Melissa L., **Londoño, Liliana**, and Franks, Peter J. 2019. "[Sensitivity of a leaf gas-exchange model for estimating paleoatmospheric CO₂ concentration.](https://doi.org/10.5194/cp-15-795-2019)" *Climate of the Past* 15 (2):795–809. <https://doi.org/10.5194/cp-15-795-2019>
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Philip T., Drozd, Pavel, González-Akre, Erika, Kaman, Ondřej, Kamata, Naoto, **Laird-Hopkins, Benita**, Libra, Martin, Manumbor, Markus, Miller, Scott E., Molem, Kenneth, Mottl, Ondřej, Murakami, Masashi, Nakaji, Tatsuro, Plowman, Nichola S., Pyszko, Petr, Šigut, Martin, Šipoš, Jan, Tropek, Robert, Weiblen, George D., and **Novotny, Vojtech**. 2019. "[Quantitative assessment of plant-arthropod interactions in forest canopies: A plot-based approach.](https://doi.org/10.1371/journal.pone.0222119)" *PloS One* 14 (10):Article e0222119. <https://doi.org/10.1371/journal.pone.0222119>

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