

Peer Reviewed Publications

- Lyu, S., Rowe, H. I., Broatch, J., Brady, J. X., Fastiggi, M., Fitts, S., Langenfeld, D., & Munson, S. M. (2026). Can surface treatments and climate matching enhance restoration success in the Sonoran Desert? *Restoration Ecology*. <https://doi.org/10.1111/rec.70429>
- Rowe, H. I., Antoninka, A., Langenfeld, D., Brady, J., Sprague, T. A., Fastiggi, M., Kollath, D. R., Ramsey, M. L., & Barker, B. M. (2025). From farm to field: Testing different biocrust cultivation approaches and application techniques in the Sonoran Desert. *Restoration Ecology*. <https://doi.org/10.1111/rec.70098>
- Rowe, H. I., Fastiggi, M., Langenfeld, D., Milne, S., Parente, J., Raboin, G., Sethi, N., Stockman, M., & Tluczek, M. (2025). The benefits of a nurse plant, shade cloth, and nurse rock on *Carnegiea gigantea* (saguaro) growth and survival shift along a stress gradient. *Journal of Arid Environments*, 232, 105492. <https://doi.org/10.1016/j.jaridenv.2025.105492>
- Antoninka, A., Rowe, H., Weser, J., Langenfeld, D., Brady, J., Sprague, T., & Day, N. (2024). Comparing greenhouse and field biocrust cultivation methods in the Sonoran Desert. *Ecological Solutions and Evidence*, 5, e12389. <https://doi.org/10.1002/2688-8319.12389>
- Uhey, D. A., Hofstetter, R. W., Earl, S., Holden, J., Sprague, T., & Rowe, H. (2024). Living on the edge: The sensitivity of arthropods to development and climate along an urban-wildland interface in the Sonoran Desert of central Arizona. *Plos one*, 19(4), e0297227.
- Sethi, N., Dalton, K., Holtry, C., Williams, S., Hennessey, C., Raboin, G., & Milne, S. (2024). Saving Saguaro Cacti at Saguaro High School. *Cactus and Succulent Journal*, 96(2), 140-149.
- Rowe, H. I., Johnson, B., Broatch, J., Cruz, T. M. P., & Prudic, K. L. (2023). Winter Rains Support Butterfly Diversity, but Summer Monsoon Rainfall Drives Post-Monsoon Butterfly Abundance in the Arid Southwest of the US. *Insects*, 15(1), 5.
- Rowe, H. I., Sprague, T. A., Fastiggi, M., & Staker, P. (2023). Comparing common buffelgrass (*Pennisetum ciliare*) removal techniques: cost efficacy and response of native plant community. *Biological Invasions*, 25(9), 2901-2916.
- Rowe, H. I., Sprague, T. A., & Staker, P. (2022). Comparing common fountain grass removal techniques: cost efficacy and response of native plant community. *Biological Invasions*, 24(12), 3817-3830.
- Rowe, H. I., Gruber, D., & Fastiggi, M. (2021). Where to start? A new citizen science, remote sensing approach to map recreational disturbance and other degraded areas for restoration planning. *Restoration Ecology*, 29(6), e13454.
- Rowe, H. I., Sprague, T. A., Ball, B., Langenfeld, D., & Rivera, L. (2022). Restoring closed trails in the Sonoran Desert: interactions of seed timing, seed source, and ripping. *Restoration Ecology*, 30(2), e13532.
- Rowe, H. I., Sprague, T. A., Broatch, J., Gruber, D., Langenfeld, D., & Rivera, L. (2020). Lessons learned 5+ years after transplanting and seeding restoration sites in the Sonoran Desert, USA. *The American Midland Naturalist*, 184(2), 129-148.
- Skotnicki, S. J., & Gruber, D. (2019). Mesoproterozoic rocks of the McDowell Mountains, Arizona—Journey into the magmatic gap. *Geologic Excursions in Southwestern North America*, 55.

- Rowe, H. I., Tluczek, M., Broatch, J., Gruber, D., Jones, S., Langenfeld, D., McNamara, P., & Weinstein, L. (2018). Comparison of trailside degradation across a gradient of trail use in the Sonoran Desert. *Journal of Environmental Management*, 207, 292-302.
- Weber, D. J., Schuett, G. W., & Tluczek, M. (2016). A citizen science survey of the herpetofauna of Scottsdale's McDowell Sonoran Preserve, Arizona, USA. *Herpetological Review*, 47(1), 5-10 p.
- Gruber, Daniel & Skotnicki, Steve & Gootee, Brian. (2016). Citizen Scientist Digitization of a Complex Geologic Map. 10.13140/RG.2.2.21634.99525.
- Gootee, B. F., & Gruber, D. G. (2015). Quartz Vein Investigation, McDowell Sonoran Preserve, Scottsdale, Maricopa County, Arizona. *Arizona Geological Survey Open File Report*, OFR-15-03, 69 p.
- Jones, S., Hull, C., & Conservancy, M. S. (2014). Vegetation and flora of the McDowell Sonoran Preserve, Maricopa County, Arizona. School of Life Science, Arizona State University. *CANOTIA*, 10(134).
- Gruber, Daniel & Levy, Larry & Millavec, Joni & Ruppert, William & Gootee, Brian & Gov.,. (2010). Preliminary Geologic Survey of the Lost Dog Overlook vicinity, McDowell Sonoran Preserve, Scottsdale, Arizona *Arizona Geological Survey Contributed report*, Cr-10-e.
- Gootee, B. F., Gruber, D., Levy, L., Millavec, J., & Ruppert, B. (2009). Limestone discovery in the McDowell Sonoran Preserve. *Arizona Geological Survey Contributed Report*, CR-09-B, 6 p.