

MOSART List of Publications

1. Lightman, A. & Sadler, P.M. (1993) Teacher Predictions versus Actual Student Gains. *The Physics Teacher*, 31(3), 162-167.
2. Sadler, P.M. (1998) Psychometric Models of Student Conceptions in Science: Reconciling Qualitative Studies and Distractor-Driven Assessment Instruments, *Journal of Research in Science Teaching*, 35(3), 265-296.
3. Sadler, P., Coyle, H., Miller, J. Cook-Smith, N., Dussault, M. & Gould, R (2009) The Astronomy and Space Science Concept Inventory: Development and Validation of an Assessment Instrument Aligned with the National Standards, *Astronomy Education Review*, 8(1), 1-26. <http://dx.doi.org/10.3847/AER2009024>
4. Sadler, P., Coyle, H., Cook-Smith, N., Miller, J., Mintzes, J., Tanner, K. & Murray, J. (2013). Assessing the Life Science Knowledge of Students and Teachers Represented by the K-8 National Science Standard, *CBE Life Science Education*. 12(3), 553-575.
5. Sadler, Philip M., Gerhard Sonnert, Harold P. Coyle, Nancy Cook-Smith, and Jaimie L. Miller. "The Influence of Teacher Knowledge on Student Learning in Middle-School Physical Science Classrooms." *American Educational Research Journal* 50, no. 5 (2013): 1020-1049.
6. Sadler, Philip M., and Gerhard Sonnert. "Understanding Misconceptions: Teaching and Learning in Middle School Physical Science." *American Educator* 40, no. 1 (2016): 26-32.
7. Sadler, Philip M., Gerhard Sonnert, Harold P. Coyle, and Kelly Miller. "Identifying Promising Items: The Use of Crowdsourcing in the Development of Assessment Instruments." *Educational Assessment* 21, no. 3 (2016): 196-214.
8. Chen, Chen, Gerhard Sonnert, Philip M. Sadler, and Susan Sunbury. "The Impact of High School Life Science Teachers' Subject Matter Knowledge and Knowledge of Student Misconceptions on Students' Learning." *CBE--Life Sciences Education* 19, no. 1 (2020).
9. Dorner, M. A., Sadler, P., & Alters, B. (2023). Still a private universe? Community college students' understanding of evolution. *Evolution: Education and Outreach*, 16(1), 1.