

Publications

1. Peng, S.; Mega, T. L.; Zhang, X. [Collective Effects in Microbubble Growth by Solvent Exchange](#) *Langmuir* **2016**, *32* (43), 11265–11272.
2. Li, M.; Tonggu, L.; Zhan, X.; Mega, T. L.; Wang, L. [Cryo-EM Visualization of Nanobubbles in Aqueous Solutions](#) *Langmuir* **2016**, *32* (43), 11111–11115.
3. German, S. R.; Hurd, T. S.; White, H. S.; Mega, T. L. [Sizing Individual Au Nanoparticles in Solution with Sub-Nanometer Resolution](#) *ACS Nano* **2015**, *9*, 7186–7194.
4. Seo, D.; German, S. R.; Mega, T. L.; Ducker, W. A. [Phase State of Interfacial Nanobubbles](#) *J. Phys. Chem. C* **2015**, *119* (25), 14262–14266.
5. German, S. R.; Wu, X.; An, H.; Craig, V. S. J.; Mega, T. L.; Zhang, X. [Interfacial Nanobubbles Are Leaky: Permeability of the Gas/Water Interface](#) *ACS Nano* **2014**, *8*, 6193–6201.
6. Luo, L.; German, S. R.; Lan, W.-J.; Holden, D. A.; Mega, T. L.; White, H. S. [Resistive-Pulse Analysis of Nanoparticles](#) *Annu Rev Anal Chem* **2014**, *7*, 513–535.
7. German, S. R.; Luo, L.; White, H. S.; Mega, T. L. [Controlling Nanoparticle Dynamics in Conical Nanopores](#) *J Phys Chem C* **2013**, *117*, 703–711.
8. Mega, T. L.; Carlson, C. B.; Cleary, D. A. [Following Glycolysis Using \$^{13}\text{C}\$ NMR: An Experiment Adaptable to Different Undergraduate Levels](#) **1997**, *J. Chem. Educ.*, *74* (12), 1474-1476.
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10. Cortes, S. J.; Mega, T. L.; Van Etten, R. L. The oxygen-18 isotope shift in carbon-13 NMR spectroscopy. 14. [Kinetics of oxygen exchange at the anomeric carbon of D-ribose and D-2-deoxyribose](#) **1991**, *J. Org. Chem.* *56*, 943–947.
11. Mega, T. L.; Van Etten, R. L. [Oxygen Exchange and Bond Cleavage Reactions of Carbohydrates Studied Using the \$^{18}\text{O}\$ Isotope Shift in \$^{13}\text{C}\$ NMR Spectroscopy](#); Finley, J. W., Ed.; Springer, **1990**; Vol. 56, pp. 85–93.
12. Mega, T. L.; Cortes, S. J.; Van Etten, R. L. The oxygen-18 isotope shift in carbon-13 nuclear magnetic resonance spectroscopy. 13. [Oxygen exchange at the anomeric carbon of D-glucose, D-mannose, and D-fructose](#) **1990**, *J. Org. Chem.*, *55* (2), 522–528.
13. Mega, T. L. Quantitative and mechanistic studies using the oxygen-18 isotope shift in carbon-13 nuclear magnetic resonance spectroscopy. [PhD Thesis](#), Purdue University, **1989**
14. Mega, T. L.; Van Etten, R. L. The Oxygen-18 Isotope Shift in Carbon-13 Nuclear Magnetic Resonance Spectroscopy. 12. [Position of Bond Cleavage in the Acid-Catalyzed Hydrolysis of Sucrose](#) **1988**, *J. Am. Chem. Soc.* *110*, 6372–6376.

Patents

1. German, Sean R., and Tony L. Mega. [Methods and apparatus for trapping and size resolution of nanoparticles and nanobubbles](#). U.S. Patent Application 14/885,935, filed October 16, 2015.
2. German, Sean R., and Tony L. Mega. [Controlling nanobubble and nanoparticle dynamics in conical nanopores](#). U.S. Patent Application PCT/US2014/034558, filed April 17, 2014.