

**Kathleen Davis**  
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## Publications

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1. Raman, M. and Davis, M.K., WATER, Architecture and Structure: *Solutions for the Urban Water Crises* [Paper accepted by conference. Withdrawn by us pending US/International patent applications], ACSA/EAAE Conference 2020.
2. Davis, M.K, Fenton, S., Ortega, J., Gergurich, E., Miocene *Sediment Story in the Eastern Mediterranean*, International Lithosphere Project Fall Conference, 2017.
3. Pettingill, H., Davis, M.K., Fielder, G., Karcz, Z., Steinberg, J., *The Tamar Sands of the Deepwater Levant Basin: A World Class Reservoir System*, AAPG/SEG International Conference & Exhibition, September, 2016. [view online](#)
4. Davis, M.K, Fenton, S., Ortega, J., Gergurich, E., *Miocene Sediment Story in the Eastern Mediterranean*, GTW North Africa Conference, 2015.
5. Summers, B., Davis, M.K., Geosteering in unconventional reservoirs for better high angle lateral well placement, *SPWLA High Angle Well Placement and Evaluation Conference*, 2013.
6. Summers, B., Davis, M.K., Brandon, N., Real-time geosteering in the Haynesville Shale with LWD density images, *Shell Journal of Technology*, April, 2012.
7. Davis, M.K., Evensen, J.M., *Formation water signatures of the Ft. Worth Basin relevant to gas production from Barnett Shale*, Geological Society of America Fall Meeting, 2007.
8. Aronson, M.C., Stixrude, L., Davis, M.K., Gannon, W., Ahilan, K., *Magnetic Excitations and Heat Capacity of Fayalite Fe<sub>2</sub>SiO<sub>4</sub>*, *American Mineralogist* 92, 481-490, 2007. [view online](#)
9. Burnley, P.C., Davis, M.K., *Volume changes in fluid inclusions produced by heating and pressurization: an assessment by finite element modeling*, *Canadian Mineralogist*, Vol. 42 (5), 1369-1382, 2004. [view online](#)
10. Davis, M.K., Panero, W.R., Stixrude, L.P., *The anvils as pressure calibrants in the hydrothermal diamond anvil cell*, American Geophysical Union Fall Meeting 2003. [view online](#)
11. Aronson, M., Davis, M.K., Stixrude, L., *Inelastic neutron scattering experiments in polycrystalline fayalite*, American Geophysical Union Fall Meeting, 2002. [view online](#)
12. Davis, M.K., Fumagalli, P., Stixrude, L.P., *Thermodynamics of silica dissolution from in-situ Raman spectroscopy*, American Geophysical Union Fall Meeting, 2001. [view online](#)
13. Davis, M.K., Fumagalli, P., Stixrude, L.P. *In-situ Raman spectroscopy of the SiO<sub>2</sub>-H<sub>2</sub>O system at elevated pressure and temperature*, Gordon Research Conference: Interior of the Earth, 2001.
14. Davis, M.K., Fumagalli, P., Stixrude, L.P., *In-situ Raman spectroscopy of the SiO<sub>2</sub>-H<sub>2</sub>O system at elevated pressure and temperature*, American Geophysical Union Spring Meeting, 2001.
15. Burnley, P.C., Davis, M.K., Blount, M., Dozier, C., Khallouf, D., Lukes, L., Pepper, J., Gray, J.C., Vanco, D.A., *The use of numerical methods to study decrepitation and volumes changes of fluid inclusions*, Geological Society of America Fall Meeting, 2000.
16. Davis, M.K., Burnley, P.C., *Finite element modeling of stresses developed around fluid inclusions in quartz*, American Geophysical Union Spring Meeting, 2000.