## List of Publications

- 9. Turner, A.C.; Korol, R.; Elbridge, D. L.; Bill, M.; Miller III, T.F.; Stolper D.A. Experimental and theoretical determinations of hydrogen isotopic equilibrium in the system CH4-H2-H2O from 3 to 200°C. *Geochim. et Cosmochim. Acta* 2021. DOI: 10.1016/j.gca.2021.04.026
- Korol, R.; Rosa-Raíces J.L., Bou-Rabee, N.; Miller III, T.F. Dimension-free path-integral molecular dynamics without preconditioning. J. Chem. Phys. 2020, 152, 104102. DOI: 10.1063/1.5134810
- 7. Elbridge, D. L.; **Korol, R.**, Lloyd, M.K.; Turner, A.C.; Webb, M.A.; Miller III, T.F.; Stolper D.A. Comparison of Experimental vs Theoretical Abundances of  $^{13}CH_3D$  and  $^{12}CH_2D_2$  for Isotopically Equilibrated Systems from 1 to 500 °C. ACS Earth Space Chem. **2019**, 3 (12), 2747-2764. DOI: 10.1021/acsearthspacechem.9b00244
- Korol, R.; Bou-Rabee, N.; Miller III, T.F. Cayley modification for strongly stable path-integral and ring-polymer molecular dynamics. J. Chem. Phys. 2019, 151 (12), 124103. DOI: 10.1063/1.5120282
- 5. **Korol R.**; Segal D. Machine Learning Prediction of DNA Charge Transport. *J. Phys. Chem. B*, **2019**, 123 (13), pp 2801 2811. DOI: 10.1021/acs.jpcb.8b12557
- 4. **Korol, R.**; Segal, D. From exhaustive simulations to key principles in DNA nanoelectronics. J. Phys. Chem. C **2018** 122 (8), 4206-4216. DOI: 10.1021/acs.jpcc.7b12744.
- 3. Korol, R.; Kilgour, M.; Segal, D. ProbeZT: Simulation of transport coefficients of molecular electronic junctions under environmental effects using Büttiker's probes. *Comp. Phys. Comm.* **2018** 224, 396-404. DOI: 10.1016/j.cpc.2017.10.005
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