List of Publications

- 8. **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
- 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 ¹³CH₃D and ¹²CH₂D₂ 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
- Korol, R.; Kilgour, M.; Segal, D. Thermopower Of Molecular Junctions: Tunneling To Hopping Crossover In DNA. J. Chem. Phys. 2016, 145 (22), 224702. DOI: 10.1063/1.4971167
- 1. Longobardi, L.E.; Zatsepin, P.; **Korol, R.**; Liu, L.; Grimme, S.; Stephan D.W. Reactions Of Boron-Derived Radicals With Nucleophiles. *J. Am. Chem. Soc.* **2016**, 139 (1), pp 426—435. DOI: 10.1021/jacs.6b11190