**Experiment #7, Literature Review**

**Objectives:**

1. Generate a written report on a physical chemistry topic. The paper must be scientifically and grammatically sound.

2. In that report, demonstrate fluency in discussing your chosen topic both through plain English and the language of mathematics.

3. Properly cite any sources you used in

**Procedure:**

For this lab, you will be working alone rather than in your normal lab group. First, you must find an article pertaining to a topic discussed or explored in class or lab (i.e. must be physical chemistry!). This article must be from a peer-reviewed scientific journal such as: *Journal of Physical Chemistry B*, *Journal of the American Chemical Society*, *Nature*, etc. The instructor must approve your chosen article, so communicate with them before you invest too much time. Each student will write a report discussing the Thermodynamic principles and analysis within the paper. Your report should include the following elements:

1. A summary of the topic addressed in the paper. This should include a more thorough background description of the thermodynamic principles illustrated by the study. Most journal articles assume their audience is an expert, but your report should include enough basic background to be understood by your peers.
2. A summary of the methods utilized in the paper. Here you can leave out some of the more tedious details, such as specific concentrations, voltages, etc. Instead, focus on the big picture so that your reader can understand what data were collected, what instruments were used to collect it, and why this method was chosen over alternatives.
3. A summary of the conclusions and discussion in the paper.
4. Your own analysis of the paper and its work. Would you suggest any improvements to the experimental method presented in the paper? Do you agree with the original authors’ conclusions? What future work might you suggest to build on the paper?