

CHEM302: Literature project

Prof. Kevin Range

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This assignment is worth 25% of your final grade in this course.

Find an article in the chemistry literature you would like to work with. The article you choose does not have to contain any computational chemistry results in it.

Before 9AM, 2010-04-23, email me a PDF copy of your chosen article and be prepared to discuss its contents in class. This is worth 5% of your final grade in this course.

On or before 4PM, 2010-05-07, hand in a report containing the following (worth 20% of your final grade in this course):

- A short (< 1 page) summary of the contents of the chosen article.
- The results of original calculations that address the topic of the chosen article.

Use the ACS style for all citations, figures, tables, etc.

No two people may use the same article.

Examples:

One might choose an article such as, Olah, G. A.; Rasul, G. *J. Am. Chem. Soc.* **1996**, *118*, 12922-12924 and perform DFT calculations on some of the molecules discussed and compare these results to those in the paper.

Or, one might choose an article like, Alcaide, B.; Martn-Cantalejo, Y.; Prez-Castells, J.; Sierra, M. A.; Monge, A. *J. Org. Chem.* **1996**, *61*, 9156-9163 and use some model chemistry to calculate the heat of reaction for the transformation of a model cis,cis,C4-C4'- β -lactam to a model fused trans,trans-bis- γ -lactam.