CHEM 375 Library Instruction: SciFinder Scholar Worksheet

Part 1 – Searching by Research Topic

1. Do a search to locate documents about Diels-Alder reactions where stereochemistry plays a role. How many records (hits) did you find containing both of the concepts? _____
2. Who has been the most prolific author on this topic? _____
3. Limit your search only to review articles in English published in the last 5 years. How many results do you have now? ____
4. Look at the first result. Who is the first author? _____

Part 2 – Searching by Author/Organization

1. Search for all publications done by Wesleyan authors. How many results did you get? _____
2. Search for all of Prof. Philip Bolton's publications. How many did you find? _____
3. Who is Prof. Bolton's most frequent collaborator, and how many times have they published together? _____
4. What chemical substance appears most frequently in Prof. Bolton's publications? What is the name and CAS Registry Number for this substance? _____

Part 3 – Searching by Chemical Substance by Name, CASRN, etc.

1. Search for the chemical substance mycarose. What is the molecular formula and the CAS Registry Number for mycarose? _____
2. Find all references about the preparation of mycarose. How many did you find? _____
3. Find the first article published on the preparation of mycarose. When was it published and who were the authors? _____

Part 4 – Searching by Chemical Substance by Structure

1. Draw and do an "exact search" for the substance shown in the bottom right. Find the "real" record among the long list of results (isn't for a component, a radical, an ion, has no isotopes, has the most references).
2. What is its name and CAS Registry Number? _____
3. What is its experimentally determined melting point when dissolved in benzene? _____
4. List the author, journal title and publication year for the article that this information is from. _____