

The following is a compilation of freely available online resources on organic chemistry I've found over the years. I've personally used these many times and I hope you will also find them every bit useful as I have had. To the best of my knowledge these resources are live and accessible at the time of compiling the list. I will continue to update this as I come across new resources. If you find any broken link here, drop a line at my mail id please.

1] Prof. Hans Reich's homepage @ University of Wisconsin, Madison is a treasure trove of many things organic. Particularly, check out his materials and compilations on [NMR](#), [natural product total synthesis](#), [Bordwell pKa table \(in DMSO\)](#), [named rules and effects in organic chemistry](#), and [named reagents](#) among many other stuff.

2] Dr. Eugene E. Kwan's homepage carries [excellent material on many topics of organic chemistry](#). The materials are a reinterpretation of Prof. David Evans' Chem 206 notes. These are, however, a bit advanced, so tread cautiously.

3] Harvard University's Prof. David Evans' Chem 206 and Prof. Andrew Myers' Chem 215 lecture notes are available at [archive.org](#). The chemistry blogger ChemBark speaks "Professor Evans' PowerPoint slides should be framed and displayed in the Smithsonian." I cannot agree more. These are the most beautiful and aesthetically pleasing presentations on teaching materials I have ever come across, and extremely useful as well. Highly recommended. Myers' notes are equally informative and highly instructive to synthetic chemists.

4] Rochester University's Prof. Alison Frontier's tips and guidance in improving the laboratory skills is available at [Not Voodoo](#). Very useful for laboratory work.

5] [Evans' pKa table](#), compiled by Prof. David Evans, very important resource to study acid-base chemistry of organic molecules.

6] A collection of problems compiled by leading organic chemistry of our era is the [Challenging Problems in Chemistry and Chemical Biology](#), answers are also available.

7] [Group meetings from Prof. Phil Baran's lab](#) from TSRI – exhaustive, insightful coverage on many topics, organized both alphabetically and topic wise.

8] Online version of Encyclopedia of Reagents for Organic Synthesis – [e-EROS](#) (gone now, sadly).

9] Reliable, tested and verified methods of hordes of organic reactions are available at [Organic Syntheses](#), lovingly called OrgSyn in our community. Many reactions' standard methods that you will find routinely in the texts.

10] Online, fully functional, [Virtual Textbook](#) of organic chemistry, as prepared by William Reusch of MSU. Beautifully written and very informative. Highly recommended.

11] [NPTEL](#) (National Programme on Technology-Enhanced Learning) chemistry courses are valuable resources for information, Check them out. make sure you select the chemistry course first on the left hand tab listing the disciplines. Both audio and video lectures are available from many faculties from the renowned institutes of our country.

12] Professor Neil Garg of UCLA and his students have created a nifty little interactive, game-based website [rschemistry.com](#) which will help you a long way to hone your skills in assigning R/S configurations to asymmetric centres. As this section always features in the question papers, I suggest you take a peek.

13] Yale University's Professor James M. McBride's [Freshman Organic Chemistry I and II](#) with YT videos and transcripts. Excellent presentation, clear explanations. Strongly recommended.

14] Elsevier's Android-based app, [ReactionFlash](#) developed in collaboration with Professor Erick Carrier's group at ETH, Zurich, for Name Reactions – useful for revision, features quiz section.

15] Professor Jon T. Njardarson's group at the University of Arizona has developed a wonderful app [Chemistry by Design](#) outlining details of total syntheses of hundreds of complex natural products or synthetic targets. Available at your Android-based phone or at the world wide web. A goldmine for synthetic chemists.