# ECS Journals' Style: EIS Plots

- Bode and Nyquist plots of the same data should not both be presented as this is a waste of journal space. You may pick one format.
- Lines connecting points should not be used. If the data are fitted to equivalent circuits, then these fits should be shown as lines on top of the data.
- Bode plots should include both log impedance magnitude and phase angle plots.
- Nyquist plots should point out some frequencies as shown below.
- Nyquist plots must have equal-scaled axes to allow easy assessment of circularity:
  - <u>Nyquist plot with unequal axes</u>. The dimension of 0-6000 ohm on y axis is longer than the dimension of 0-6000 ohm on the x axis. **This is not the proper way to plot EIS data** because you can't easily check for circularity.
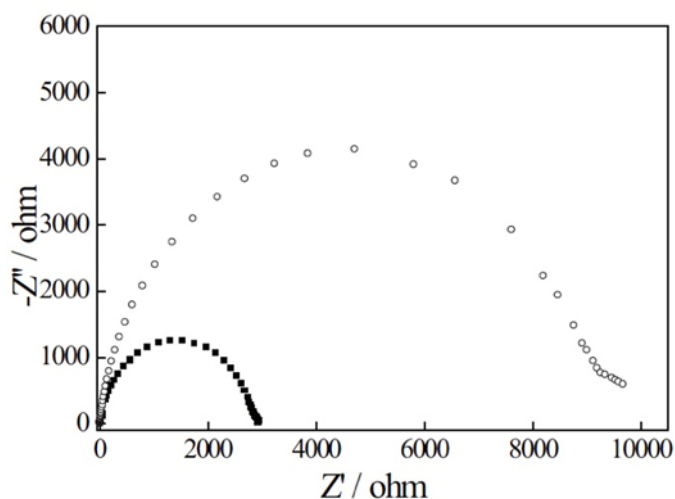
  - <u>Nyquist plot with equal axes</u>. The dimension of 0-6000 ohm on y axis is equal to the dimension of 0-6000 ohm on the x axis. **This is the proper way to scale a Nyquist plot**. Note that the axis limits aren't important. It is the dimensions of the same magnitude along each axis. This plot also shows correct identification of some frequencies.