A quick guide to scientific citation:

(1) If you use numbered references, place the relevant number[s] in the text, e.g.,

It was found that CO_2 did not leak at this site [1], so subsequently we did....

List your reference by this number in the subsequent Reference Section.

(2) If you use the Harvard-style citation, put the author-year within the text, e.g.:

More than two authors:

It was found that CO₂ did not leak at this site (Zhang et al., 2006), so subsequently we did...

Exactly two authors:

It was found that CO₂ did not leak at this site (Zhang and Gable, 2007), so subsequently we did...

One author only:

It was found that CO₂ did not leak at this site (Zhang, 2008), so subsequently we did...

(3) When referencing, include complete information:

A reference for a journal paper: (some journals still use page numbers, so provide that)

[1] Zhang, Y., C. W. Gable, and M. Person (2006) Equivalent Hydraulic Conductivity of an Experimental Stratigraphy - Implications for Basin-Scale Flow Simulations, Vol. 42, W05404, Water Resources Research, doi:10.1029/2005WR004720.

A reference for a conference proceeding:

[2] Sadaatpoor, E., S. Bryant, and K. Sepehrnoori (2007) Effect of heterogeneity in capillary pressure on buoyancy driven flow of CO₂, Proceedings, National Energy Technology Laboratory 6th Annual Conference on Carbon Capture and Sequestration, Pittsburgh PA, May 7-10, 2007.

A reference for a paper in a book chapter:

[3] Neretnieks, I. (1993) Solute transport in fracture rock—applications to radionuclide waste repositories. In: Flow and contaminant transport in fractured rock, Bear J, Tsang C F, de Marsily G (eds.), San Diego, Academic Press, Inc, p. 39–127.

For a book:

[4] Freeze, A. R., and J. A. Cherry (1979) Groundwater, Prentice Hall, 604p., p. 105-106.

When citing a specific definition, equation or formula from a book, it is a good idea to include the page number(s) in the book where this definition/equation/formula can be found.