

# Cosmic Chemical Evolution; International Astronomical Union. Symposium, J.W. Truran; 2002; 9781402004483; Springer Science & Business Media, 2002; 242 pages

Cosmic chemical evolution describes the chemical enrichment occurring in a unitary comoving volume of the Universe as a function of cosmic time. While galactic chemical evolution concerns single galaxies, cosmic chemical evolution refers to a mixture of galaxies of different morphological type whose contributions to chemical enrichment are weighted according to their luminosity (mass) function. In this chapter, we will describe the basic principles for computing cosmic chemical evolution together with some model results compared to observations. The cosmic census of metals will also be discussed. The evolution of the chemical properties of stellar populations and of the interstellar and intergalactic medium across the cosmic epochs provides unique information on the evolutionary processes driving the formation and evolution of galaxies. Theory and cosmological simulations give a relatively simple scenario on how dark matter evolves from the primeval perturbations, forming dark matter halos and large scale structures (e.g., Springel et al., 2018). (20081201) Evolution: The First Four Billion Years Michael R No god but God: The Origins, Evolution, and Future of Islam. 337 Pages 2010 1.28 MB 78,424 Downloads New! Reza\_Aslan\_No\_god\_but\_God\_The\_Origins\_Evolution(b-ok\_org).pdf No god but God: The Origins Life on a Young Planet: The First Three Billion Years of Evolution on Earth. 296 Pages 2015 3.86 MB 1,491 Downloads New! publication. Life on a Young Planet: The First Three Billion Years of Evolution on Earth Andrew H ... Life on a Young Planet: The First Three Billion Years of Evolution on Earth Andrew H. Knoll