

## **Abstract**

Lithium is widely used as a tester to the cosmological model, a probe of stellar structure, and an age indicator of young stellar clusters. It is the very element that presents deep insights yet many problems to astrophysics. I will briefly discuss problems and puzzles that Li introduces in astrophysics, including cosmological Li problem, Li-rich giants problem, Li problem in the Sun, and Interstellar Li content, then focus on the Galactic Li evolution. Using the Gaia-ESO survey data our group recently find a different Galactic Li enrichment history in the Galactic thin disc compared to the Galactic thick disc. A Li decline is also found for super-solar metallicity stars, if it is real, Li would be the first element we know whose absolute abundance declines with metallicity.