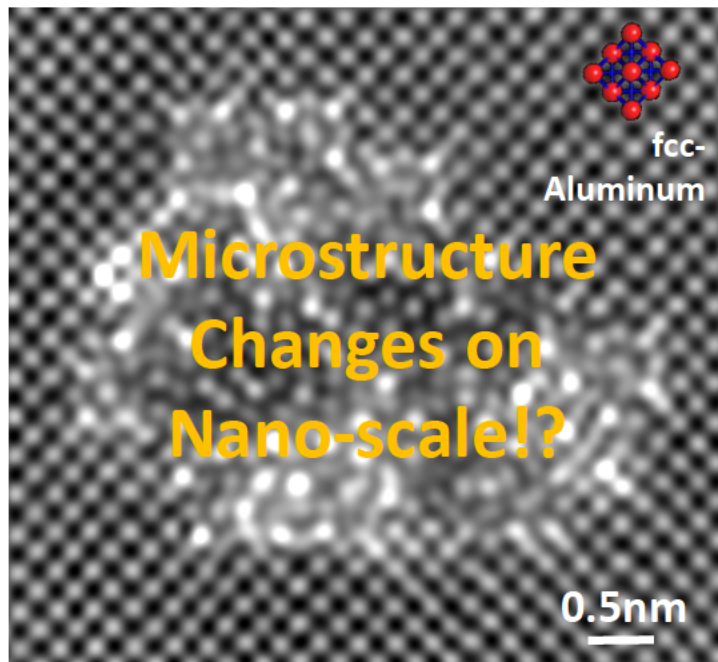


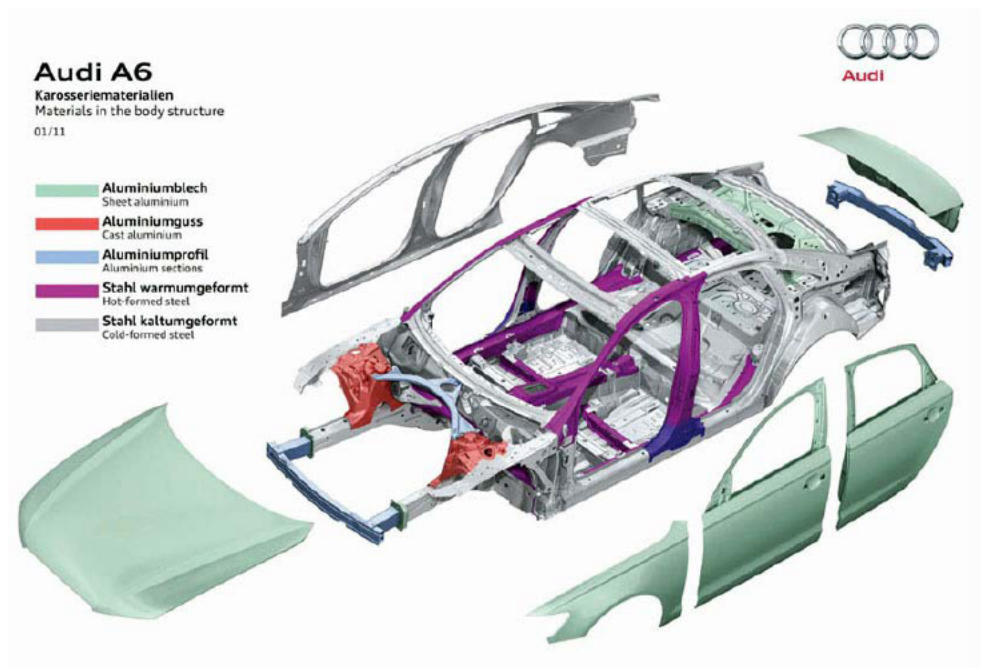
A mysterious metal increasing its strength spontaneously

Abstract

Aluminum alloys are widely used in automotive and other structures because of their lightweight, high-strength, good corrosion resistance, etc. In this lecture, you will learn the strengthening behavior of aluminum alloys, so-called “age-hardening.” Also, we will study the microstructural evolution and strengthening mechanism of aluminum alloys on the nano-scale. The class is a face-to-face training course.



High resolution STEM image



An example of aluminum alloys applied to the automobile