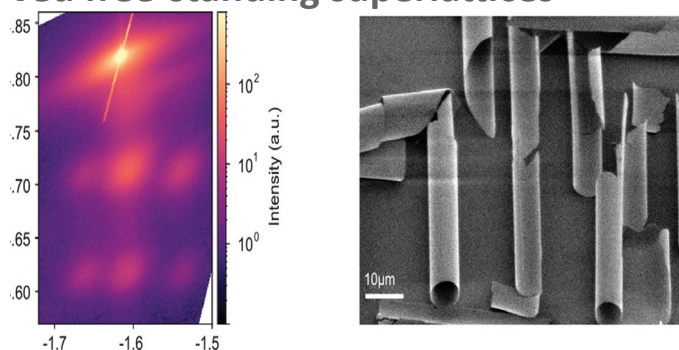


Secrets of receptor activation opens door to engineer plant-microbes



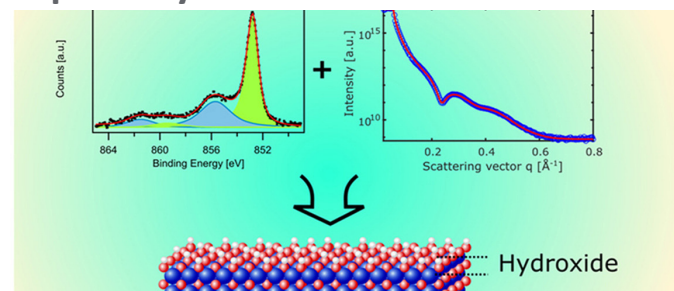
In a study combining structural biology, biochemical and genetic approaches, scientists showed that plant cell-surface receptors employ a mechanism for error correction responsible for the control of receptor activation and signaling select bacterial symbionts. [Read the full story](#)

Probing ferroelectric domains in curved free-standing superlattices



By growing superlattices of ferroelectric and non-ferroelectric transition metal oxides and releasing them from the underlying substrates, researchers explore polarization patterns in curved geometries. Polarization couples with lattice distortion, often exploited in strain engineering. [Read the full story](#)

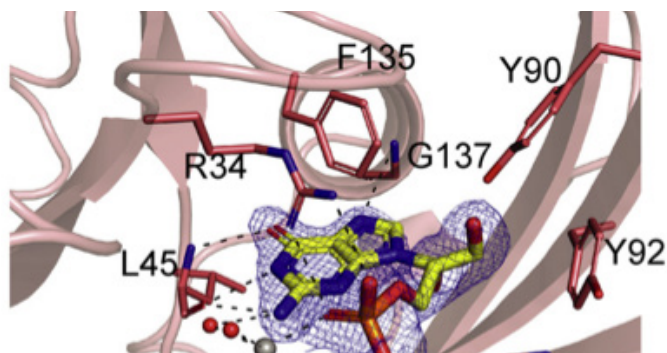
Deciphering corrosion resistance of superalloys



To develop longer-lasting metallic materials for harsh operating conditions requires understanding of the surface composition, structure and properties. Researchers investigated the surface chemistry and thickness of the protective native oxide layer of nickel superalloys at FlexPES beamline. [Read the full story](#)



Understanding NUDT15: lessen the efficacy of HCMV treatment



Ganciclovir, a medicine used to treat human cytomegalovirus (HCMV) infections, was found less efficient when reacting to human's NUDT15 enzyme — based on a recent BioMAX study. This finding gives further insight into pharmaceutical treatments' efficacy in HCMV cases. [Read the full story](#)

Scientists investigate mysteries of mantis shrimp clubs at DanMAX



The mantis shrimp's common prey, mollusks, are usually made of the same material as the club the shrimp uses to attack them. Scientists from Aarhus University in Denmark conducted an experiment at MAX IV's DanMAX beamline to learn more about the club's structure. [Read the full story](#)

SCIENTÍFika series

SCIENTÍFika, the [MAX IV scientific seminar series](#) has returned with new guests and research insights for our user communities. Visit our website for the latest scheduled talks, and tune-in Mondays at 13:45 CET!

