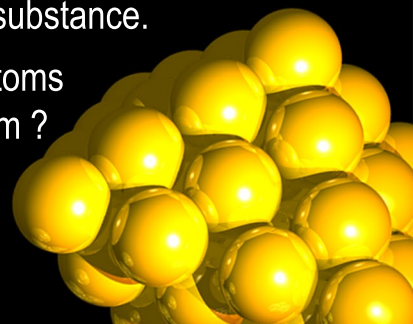


Down to the sub-nanoscale

How the behaviour of a material evolves as it built up atom by atom from the monomer to the bulk has been a fascinating question from the time of ancient Greek philosophers who were the firsts to propose the concept of atoms as the smallest indivisible units of a substance.

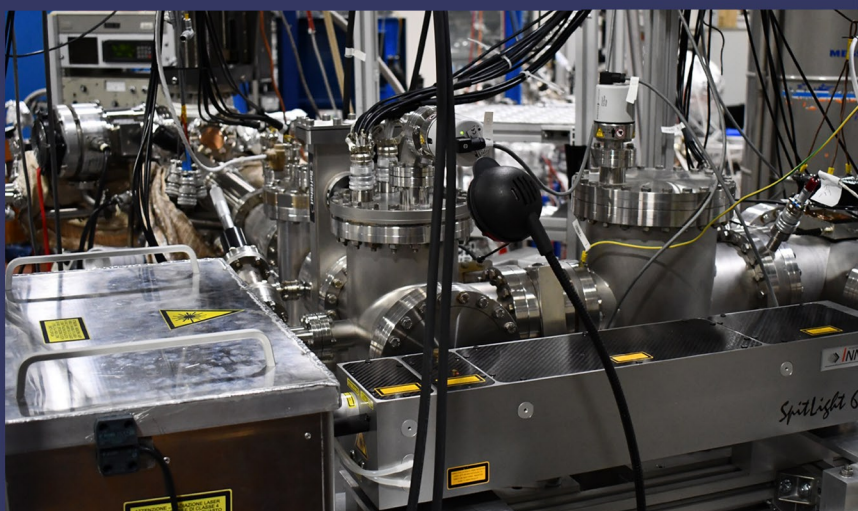
But do you know that below the nanoscale (<1 nm) a very small cluster of atoms can drastically change its properties by adding or removing just a single atom ?

The goal of our research team is to understand how structural, electronic, magnetic and chemical properties evolve atom by atom, from the monomer to the bulk. How? Using **ENAC (Exact Number of Atoms in each Cluster)**



The ENAC source coupled with the synchrotron light of **Elettra 2.0** represents a truly unique system worldwide in the field of experimental condensed matter physics. We couple 0D nanoclusters with 2D materials we are working with since than 15 years, such as graphene, h-BN, MoS₂, WS₂, silicene, borophene, etc.

Soon a new Microscope will join our set-up to provide a new perspective to our studies.



If you want to join us in the 100th birthday of our university for the **Bachelor** or **Master** degree do not hesitate to contact us !

