



Dr. Igor Zlotnikov

Group Leader at:

B CUBE – Center for Molecular Bioengineering
Center for Molecular and Cellular Bioengineering (CMCB)
“Multi-Scale Analysis” Group
Igor.Zlotnikov@tu-dresden.de

Publications: [Google Scholar](#)

“To understand a system in equilibrium one needs to disturb it and observe it going back to its steady state”

Biom mineralization – Crystal growth in biological environments (GROWTH)

i.e. understanding the interplay between physics of materials and cellular control during the process of biom mineralization

Physics of biom mineral morphogenesis (FORM)

i.e. understanding the mechanisms of morphological order formation in inherently disordered amorphous biosilica

nanoMechanical characterization of biocomposite structures (FUNCTION)

i.e. understanding the mechanisms of frequency, temperature and humidity dependent elastic and viscoelastic response of naturally occurring functional composite systems

