

Download Molecular Architectonics

This book draws on the main themes covered during the International Workshop on Molecular Architectonics which took place in Shiretoko, Japan from August 3 to 6, 2015. This book draws on the main themes covered during the International Workshop on Molecular Architectonics which took place in Shiretoko, Japan from August 3 to 6, 2015. In this work, experts come together to write about the most important aspects of molecular architectonics. This interdisciplinary, visionary and unique book is of interest to scientists working on electronic materials, surface science and information processing sciences using noise and fluctuation. The phrase “Molecular Architectonics” refers to the manifestation of electronic, optical, and information-processing functions that are orchestrated by molecular assemblies like pillars and beams in a building structure. The researchers will participate as “molecular architects,” in the “design” and “fabrication” processes, to elaborately design a procedure for the determination of the position of pillars (molecules) on the foundation (surface), for creating organisms.