

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. Introduces a newly developing interdisciplinary frontier that bridges materials science, surface science, nano-science, and non-conventional information science. Allows researchers in the field of materials science to understand non-conventional information processing, in which materials perform. 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. 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.