Volume Editor T. Shimizu Self-Assembled Nanomaterials | Nanofibers

Self-Assembled Nanomaterials I

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Reviews

Certainly, this is actually the greatest job by any author. It is definitely simplified but excitement inside the 50 percent of the book. I am just easily will get a delight of studying a composed pdf. (Lelia Heidenreich)

SELF-ASSEMBLED NANOMATERIALS I



Springer Sep 2008, 2008. Buch. Book Condition: Neu. 23.5x15.5x cm. Neuware - Nanotechnology is the creation of useful materials, devices, and systems through the control of matter on the nanometer-length scale. This place at the scale of atoms, molecules, and supramolecular structures. worldofchemistry, the rational design of molecular structures and optimized control of self-assembly conditions have enabled us to control the resultant self-assembled morphologies having 1 to 100-nm dimensions with singnanometer precision. This current research trend applying the bottom-up approach to molecules remarkably with top-down contrasts the approach nanotechnology,inwhichelectronicdevicesareminiaturizingtosmallerthan 30nm.However,even workingwithstate-of-the-artcomputer te- nology state that maintaining the rate of improvement based on Moore s law will be the most dif cult challenge in the next decade. On the other hand, the excellent properties and intelligent functions of a variety of natural materials have inspired polymer and organic chemists to tailortheirsyntheticorganicalternativesbyextractingtheessentialstructu ral elements. In particular, onedimensional structures in nature with sophiscatedhierarchy, such as my elinated axonsinneurons, tendon, protein tubes of tubulin, and spider webs, provide intriguing examples of integrated functions and properties. Againstthisbackground, supramolecular self-assembly of one-dimensional architectures like bers and tubes from amphiphilic molecules, bio-related molecules, and properly designed self-assembling polymer molecules has - tractedrapidlygrowinginterest. The intrinsic properties of organic molecules such as the diversity ofstructures, facile implementation offunctionality, and the aggregation property, provide in nite possibilities forthedevelopment of new and interesting advanced materials in the near future. The morpholocally variable characteristics of supramolecular assemblies can also function as pre-organized templates to synthesize one-dimensional hybrid nanoc- posites. The obtained one-dimensional organic inorganic, organic bio, or organic metal hybrid materials are potentially applicable to sensor/actuator arrays, nanowires, and opto-electricdevices. ThepresentvolumesonSelf-AssembledNano bers(Volume219) and Natubes(Volume220)provideanoverviewonthoseaspectswithineightchapters. 175 pp. Englisch.

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