

〈講 演〉

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ナノテクが開く究極の扉

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Ultimate Goals of Nanotechnologies

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Abstract

Nanometer scale device in the thickness direction has already been realized in the industry. Next step to be studied is spatial control and usage of nanometer scale structure. Including the process for its development, requested of the Nano-device and its application system is an aspect of building a base for constructing the sustainably evolving society, for example, from a viewpoint of minimizing environmental burden. Such a purpose cannot be accomplished when merely the conventional development road map of the existing technologies is pursued. Nanotechnology is roughly divided into two fields. One is the field where we can find living examples or hints for new idea abundantly concealed in the living things and/or ecological system, while the other field is the frontier to be newly developed. Covering the fields in full detail is yet vague, since the systematization of Nanotechnology is still immature and the technology fields themselves are on the way of being rapidly developed and expanded. This lecture is intended to offer a hint for considering how to build competing domination at stages ranging from “Science” to “Industry,” and is also focused on the importance of destructive innovation and roadmap of united technologies.

Key words: nanotechnology, destructive innovation, sustainably evolving society.