

Medical Applications of Nanotechnology, an Abstract

This paper is a discussion of the rise of human technology, its changes and advances achieved through micronization, and the future of nanotechnology. The paper will briefly cover the evolution of computer and other high-tech hardware and the ideas, research, study, both actual and fictional, which led and are continuing to lead to the development of truly advanced and amazing nanotechnology. I will discuss in some detail the current state of nanotech, achievements and setbacks, potential benefits and abuses, and lastly, the future of the technology.

Bibliography

- K.Eric Drexler, Engines of Creation, The Coming Era of Nanotechnology, Anchor Books, 1986.
- Ralph Merkle, Nanotechnology and Medicine, from *Advances in Anti-Aging Medicine*, Vol. I, edited by Dr. Ronald M. Klatz, Liebert press, 1996, (277-286).
- Wolfgang J Parak, *et al.*, Biological Applications of Colloidal Nanocrystals, from the Institute of Physics, Electronic Journals section. [\(http://www.iop.org/EJ/Nanotechnology 14 No 7 \(July 2003\)\)](http://www.iop.org/EJ/Nanotechnology%2014%20No%207%20(July%202003)), (R15-R27).
- Erich W. Stein, Michael J. McShane, Multilayer Lactate Oxidase Shells on Colloidal Carriers as Engines for Nanosensors, from *IEEE Transactions on Nanobioscience*, Vol. 2, No. 3, (September 2003) , (133-137).
- M. Papadaki, Research on medical applications of nanotechnology in the European Union [Cellular/tissue engineering], from *IEEE Engineering in Medicine and Biology Magazine*, Vol. 22, No. 1, (February 2003), (88).
- Sleyter, U.B., *et al.*, Nanotechnology and biomimetics with 2-D protein crystals, from *IEEE Engineering in Medicine and Biology Magazine*, Vol. 22, No. 3, (June 2003), (140-150).