

**CPC****COOPERATIVE PATENT CLASSIFICATION****B82Y****SPECIFIC USES OR APPLICATIONS OF NANO-STRUCTURES;  
MEASUREMENT OR ANALYSIS OF NANO-STRUCTURES;  
MANUFACTURE OR TREATMENT OF NANO-STRUCTURES****NOTE**

This subclass covers applications and aspects of nano-structures which are produced by any method, and is not restricted to those that are formed by manipulation of individual atoms or molecules.

Attention is drawn to the Note following the title of class [B82](#) , which defines the meaning of the terms "nano-size", "nano-scale" and "nano-structure" in this subclass.

This subclass is intended to enable a comprehensive search of subject matter related to nano-structures by combination of classification symbols of this subclass with classification symbols from other subclasses. Therefore this subclass covers aspects of nano-structures that might also be entirely or partially covered elsewhere in the IPC.

This subclass is for secondary classification, i.e. obligatory supplementary classification of subject matter already classified as such in other classification places, e.g. :

B82B Nanostructures formed by individual manipulation of atoms, molecules, or limited collections of atoms or molecules as discrete units; manufacture or treatment thereof  
[A61K 9/51](#) Nano - capsules for medicinal preparations  
[B05D 1/20](#) Langmuir-Blodgett films  
[C01B 31/02](#) Carbon nano-structures, e.g. bucky-balls, nanotubes, nanocoils, nano-doughnuts or nano-onions  
[G01Q](#) Scanning probe techniques  
[G02F 1/017](#) Optical quantum wells or boxes  
[H01F 10/32](#) Nano-structured thin magnetic films  
[H01F 41/30](#) Molecular beam epitaxy [MBE]  
[H01L 29/775](#) Quantum wire FETs

The classification symbols of this subclass are not listed first when assigned to patent documents.

In this subclass, multi-aspects classification is applied, so that aspects of subject matter that are covered by more than one of its groups should be classified in each of those groups.

**B82Y 5/00**

**Nano-biotechnology or nano-medicine, e.g. protein engineering or drug delivery**

**B82Y 10/00**

**Nano-technology for information processing, storage or transmission, e.g. quantum computing or single electron logic**

**B82Y 15/00**

**Nano-technology for interacting, sensing or actuating, e.g. quantum dots as markers in protein assays or molecular motors**

<b>B82Y 20/00</b>	<b>Nano-optics, e.g. quantum optics or photonic crystals</b>
<b>B82Y 25/00</b>	<b>Nano-magnetism, e.g. magnetoimpedance, anisotropic magnetoresistance, giant magnetoresistance or tunneling magnetoresistance</b>
<b>B82Y 30/00</b>	<b>Nano-technology for materials or surface science, e.g. nano-composites</b>
<b>B82Y 35/00</b>	<b>Methods or apparatus for measurement or analysis of nano-structures</b>
<b>B82Y 40/00</b>	<b>Manufacture or treatment of nano-structures</b>
<b>B82Y 99/00</b>	<b>Subject matter not provided for in other groups of this subclass</b>