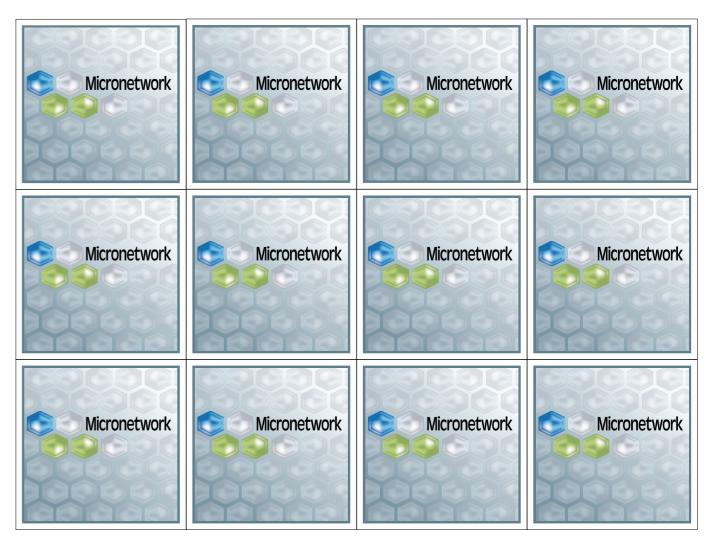
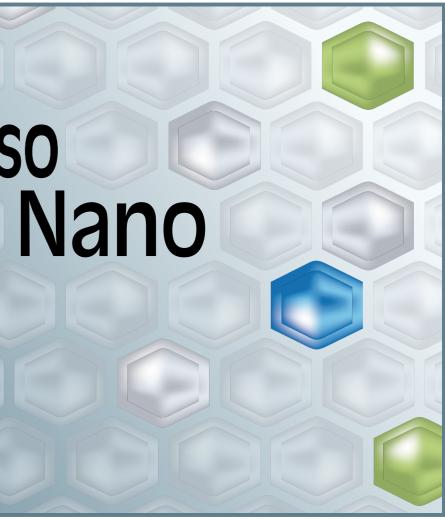


Personal





Pexeso Nano

- 1 carbon balls of diameter 1.1 μm with organized magnetic iron oxide nanoparticles
- 2 forest of carbon nanotubes ruffled using tweezers
- 3 catalytic nanoparticles at the ends of carbon nanotubes revealed using backscattered electrons
- 4 local fault of ultrananocrystalline diamond growth (area radius 70 $\mu m)$
- 5 nucleation of nanocrystalline diamond with crystal size about 0.1 to 1 μm
- 6 film formed by iron oxide nanoparticles of typical size 150 nm
- 7 chains of superparamagnetic iron oxide nanoparticles imaged using transmission electron microscopy
- 8 carbon nanowalls formed by several graphene layers
- 9 structures formed by microcrystalline diamond (field of view 18 µm)
- 10 end of carbon nanotube with an inner catalytic particle imaged using transmission electron microscopy
- 11 growth of bundles of carbon nanotubes on a catalyst patterned using electron litography
- 12 nucleation of ultrananocrystalline diamond film growth (field of view 35 $\mu m)$
- 13 diamond microcrystal in the shape of an icosahedron with 2.8 μm long edge
- 14 coalescence of nucleation centres in ultrananocrystalline diamond (field of view 14 $\mu m)$
- 15 diamond microcrystal with 2 μm long edge in a matrix formed by nanocrystalline diamond
- 16 detail of local fault of ultrananocrystalline (ballas) diamond growth (field of view 5 $\mu m)$
- 17 forest of carbon nanotubes with radius of 10 to 20 nm and length of 80 μm
- 18 ballas diamond containing graphitic lamellas (radius 6 $\mu m)$

Micrographs were obtained using scanning electron microscopy if not stated otherwise.

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INVESTICE DO ROZVOJE VZDĚLÁVÁNÍ

