|  |  |  |
| --- | --- | --- |
| 10 µm |  | figure |
| (a) | (b) | (c) |
| Fig. 1. Dark field optical microscopic images of gold microcrystals (a), TEM photo of nanocrystals (b) and calculated distribution of electric field (c) for triangular prismatic gold microcrystals. | | |

|  |  |
| --- | --- |
| 100 nm | 5 µm |
| (a) | (b) |
| Fig. 2. (a) Transmitted electron microscopy image of Au/SiO2 nanoparticles; (b) scanning electron microscopy of silver nanoparticles with graphene flakes. | |

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| --- | --- | --- |
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| (a) | (b) | (c) |
| Fig. 3. Water dispersion of Au/SiO2 nanoparticles (a). SERS substrate obtained after drop casting and drying of nanoparticles on the silicon substrate (b). Enhanced (1) and referent (2) Raman spectra of pyridostigmine bromide (c). | | |

|  |  |
| --- | --- |
|  |  |
| (a) | (b) |
| E:\IREN\Work\Projects\НАТО_2014\Meetings\Mission_Lyon\Report\MelB16F10_krystals\Control\2.jpg | E:\IREN\Work\Projects\НАТО_2014\Meetings\Mission_Lyon\Report\MelB16F10_krystals\Mel_Au kryst 100 mkg per ml\1.tif |
| (c) | (d) |
| Fig. 4. Microscopic images of accumulation of gold micro- and nano-prisms in the normal lymphocytes (a); malignant lymphocytes (b); control cells (c); melanoma cells (d). Images are provided by Dr. Iryna Shton from the R. Kavetskiy Institute of Experimental Pathology, Oncology and Radiobiology, NAS of Ukraine. | |