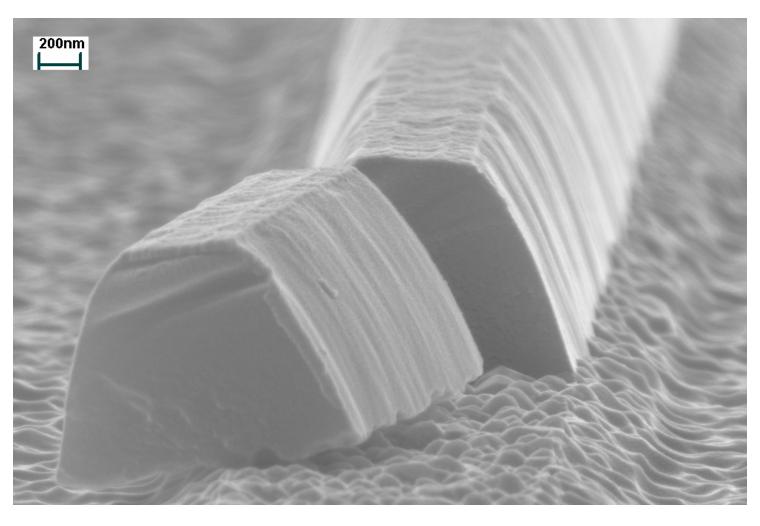


micro & nano - graph Title:

A piece of Nano- Mon Chéri

Description:

Porous Si after selective chemical treatment.



Magnification: 100 000

Submitted by: E. Horváth

Instrument: Carl Zeiss, LEO 1540 XB

Affiliation: HAS, RESEARCH INSTITUTE FOR TECHNICAL

PHYSICS AND MATERIALS SCIENCE

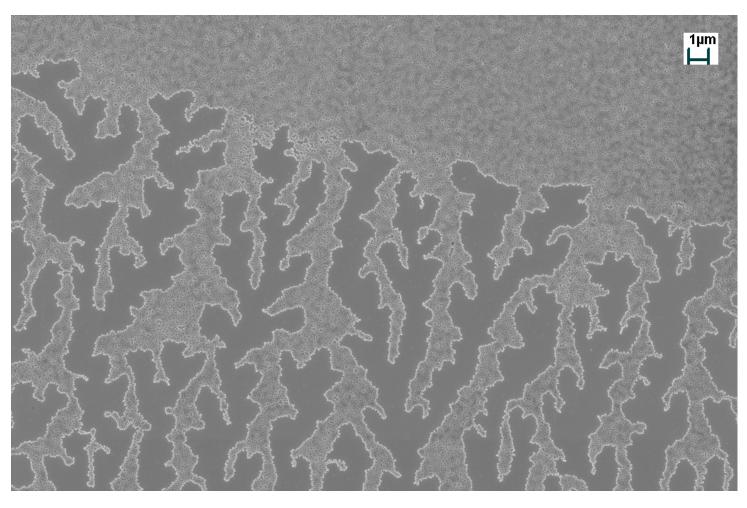


micro & nano - graph Title:

Snow-frost

Description:

300 nm silicon balls on Si surface.



Magnification: 10 000

Submitted by: E. Horváth

Instrument: Carl Zeiss, LEO 1540 XB

Affiliation: HAS, RESEARCH INSTITUTE FOR TECHNICAL

PHYSICS AND MATERIALS SCIENCE

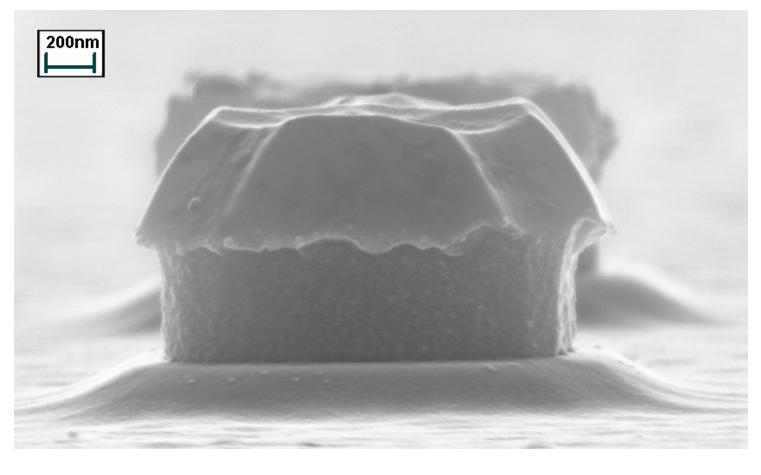


micro & nano - graph Title:

Nano-Muffin



Porous Si after selective chemical treatment.



Magnification: 100 000

Submitted by: E. Horváth

Instrument: Carl Zeiss, LEO 1540 XB

Affiliation: HAS, RESEARCH INSTITUTE FOR TECHNICAL

PHYSICS AND MATERIALS SCIENCE



micro & nano - graph Title:

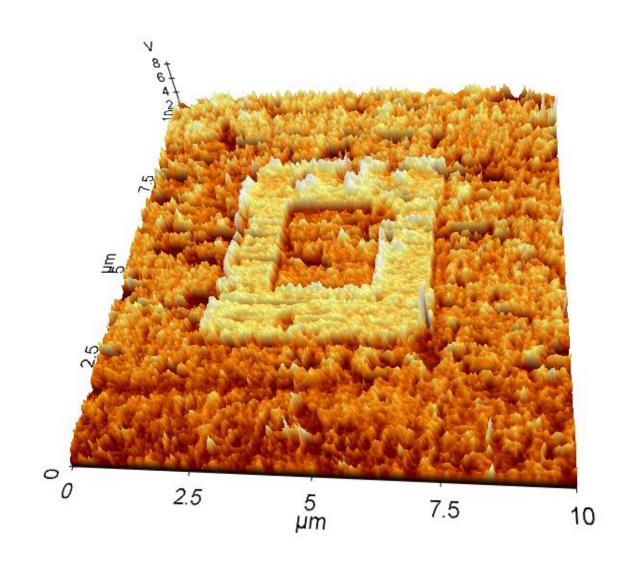
Pt ion detection

Description:

LFM (lateral force microscope) image of Pt ion adsorption (mesazone) and gold nanoparticles; mesazone is relievo because of high friction force with AFM tip, however this zone is intaglio in topography.

Magnification: -

Submitted by: Sung Koo Kang



Instrument: XE-100, PSIA (AFM)

Affiliation: School of Chemical and Biological Engineering, Seoul

National University



Title: Pt ion detection

50 -

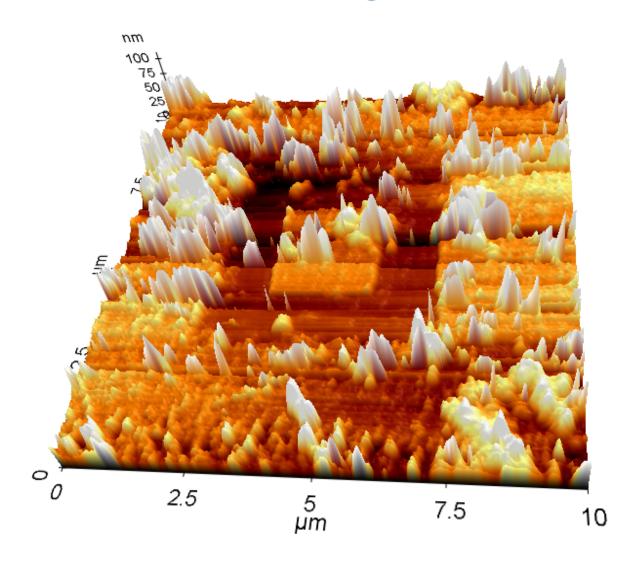
25 -

Description:

Topo image of Pt ion adsorption (mesa-zone) and gold nanoparticles; mesa-zone is intaglio, however this zone is relievo in LFM image because of chemical properties. In addition, aggregated organic materials is not appeared in LFM image on the same reason.

Magnification: -

Submitted by: Sung Koo Kang



Instrument: XE-100, PSIA (AFM)

Affiliation: School of Chemical and Biological Engineering, Seoul

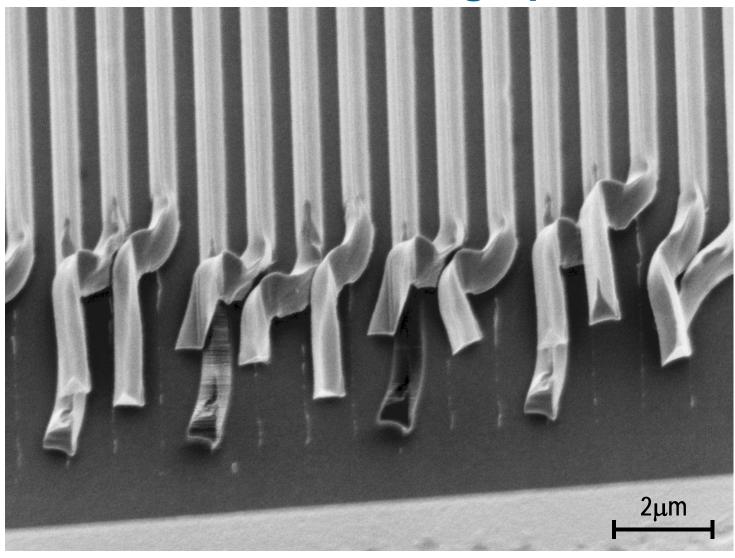
National University



micro & nano - graph Title:

Fringes

Description:
Detail of a deformed
polymeric pattern, after
NanoImprint
lithography



Magnification: 25 k X Instrument: SEM LEO 1530

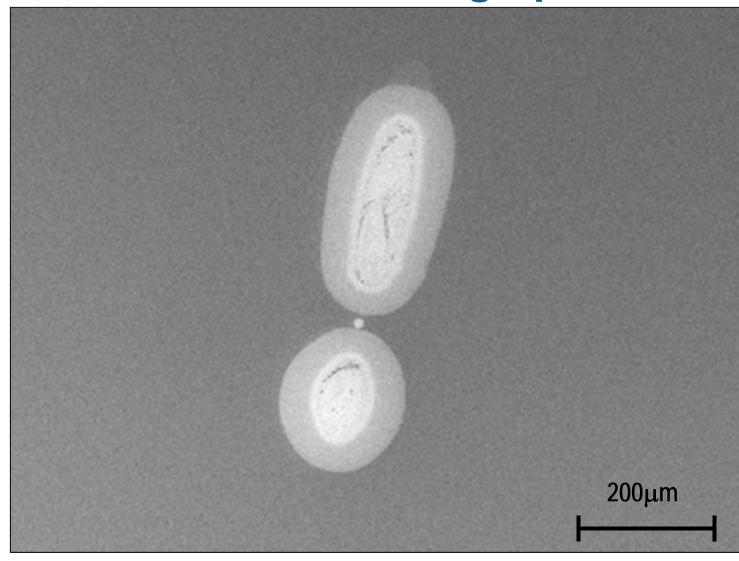
Submitted by: Irene Fernández Affiliation: CNM, IMB - Barcelona



micro & nano - graph Title:

Surprise!

Description: Some remaining resist after cleaning a sample with acetone.



Magnification: 140 X Instrument: SEM LEO 1530

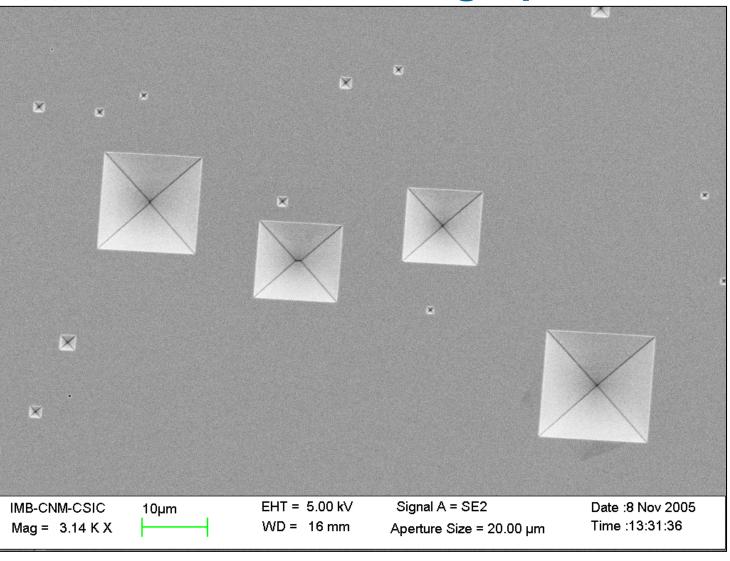
Submitted by: Irene Fernández Affiliation: CNM, IMB - Barcelona



micro & nano - graph Title:

Giza

Description: Overetched structures in a silicon wafer, after TMAH etching.



Magnification: 3.14 k X

Submitted by: Irene Fernández

Instrument: SEM LEO 1530

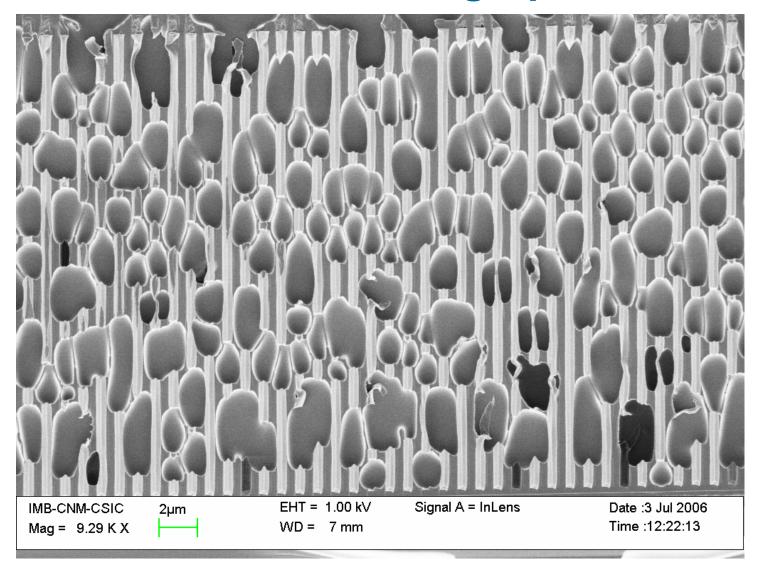
Affiliation: CNM, IMB - Barcelona



micro & nano - graph Title:

Tulipes

Description:
Polymeric pattern, after
NanoImprint
lithography, with high
imprinting and
demolding temperature



Magnification: 9.29 k X Instrument: SEM LEO 1530

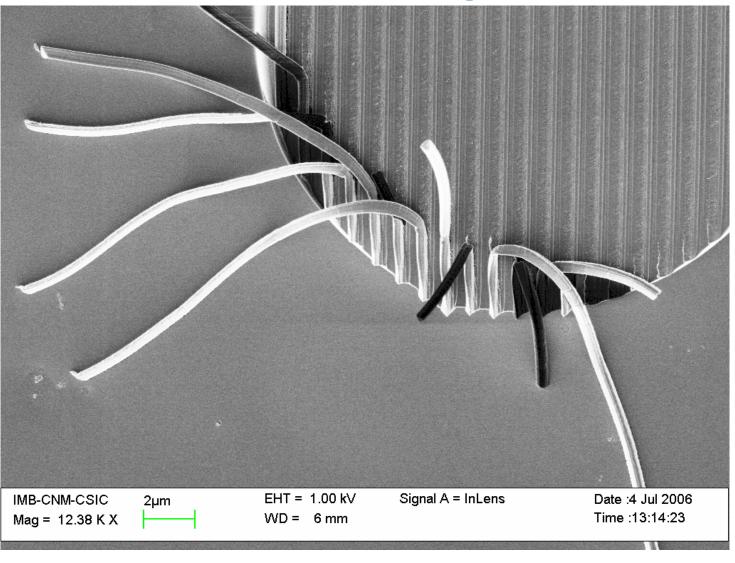
Submitted by: Irene Fernández Affiliation: CNM, IMB - Barcelona



micro & nano - graph Title:

Spider

Description:
Deformed polymeric
pattern, after
NanoImprint
lithography



Magnification: 12.38 k X Instrument: SEM LEO 1530

Submitted by: Irene Fernández Affiliation: CNM, IMB - Barcelona

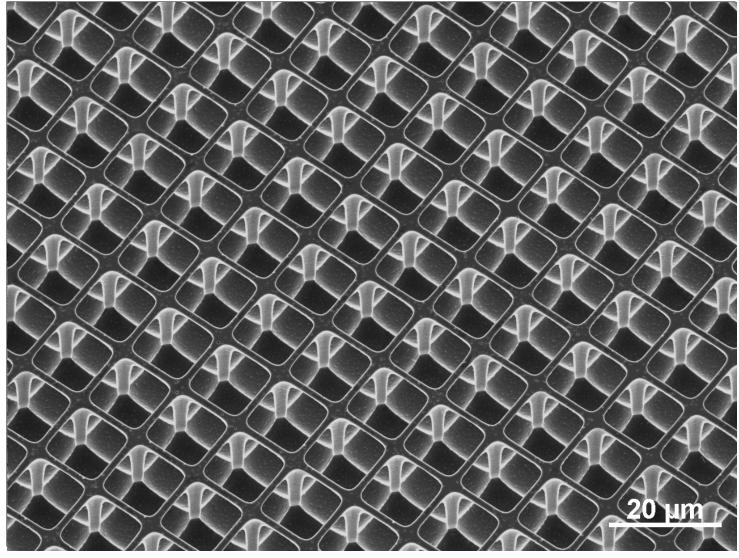


micro & nano - graph Title:

Not an Escher

Description:

Accidental undercutting of square pits, during cryo etch in Si, resulting in a freestanding cage structure



Magnification: 800 x Instrument: FEI XL30 SFEG

Submitted by: Chris Rétif Affiliation: FOM-AMOLF, Amsterdam The Netherlands

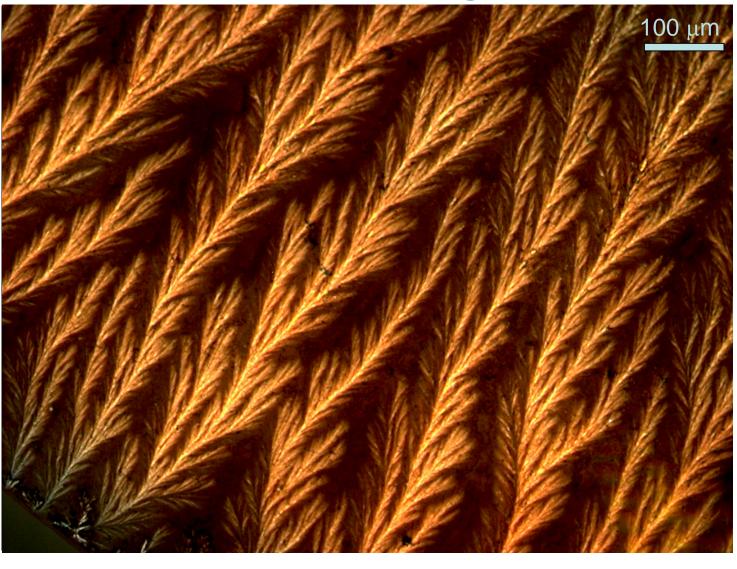


micro & nano - graph Title:

Who spilled the milk?

Description:

Optical image of quantum trees evolving from quantum dot solution by evaporation.



Magnification: Scale on the picture

Submitted by: Yongfeng Mei

Instrument: AxioCam MR

Affiliation: Max-Planck Institute for Solid State Research,



micro & nano - graph Title:

Who spilled the milk again?

Description:

Optical image of quantum trees evolving from quantum dot solution by evaporation.



Magnification: Scale on the picture

Submitted by: Yongfeng Mei

Instrument: AxioCam MR

Affiliation: Max-Planck Institute for Solid State Research,

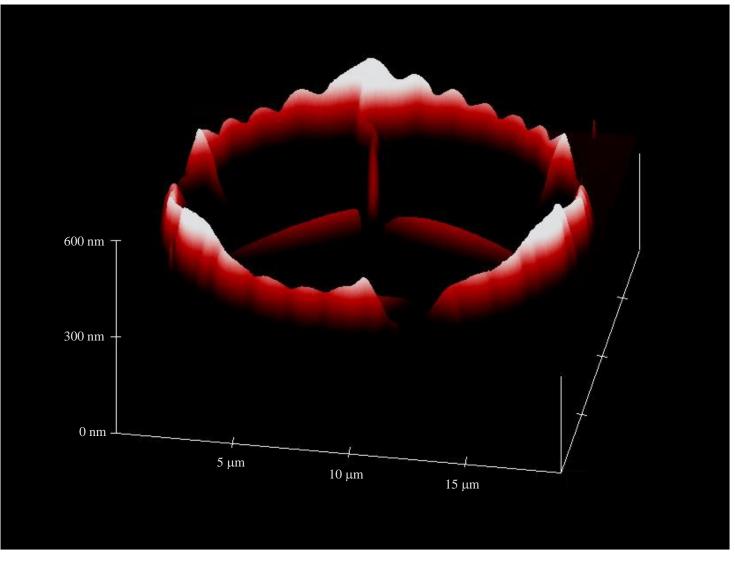


micro & nano - graph Title:

It is 2006's nano-Benz logo.

Description:

AFM image of semiconductor nanochannel (~100 nm) network with Benz logo by releasing and bond-back of layers (REBOLA) technology.



Magnification: Scale on the picture

Submitted by: Yongfeng Mei

Instrument: Nanoscope

Affiliation: Max-Planck Institute for Solid State Research,

IIIN = 2006 micro & nano - graph Contest

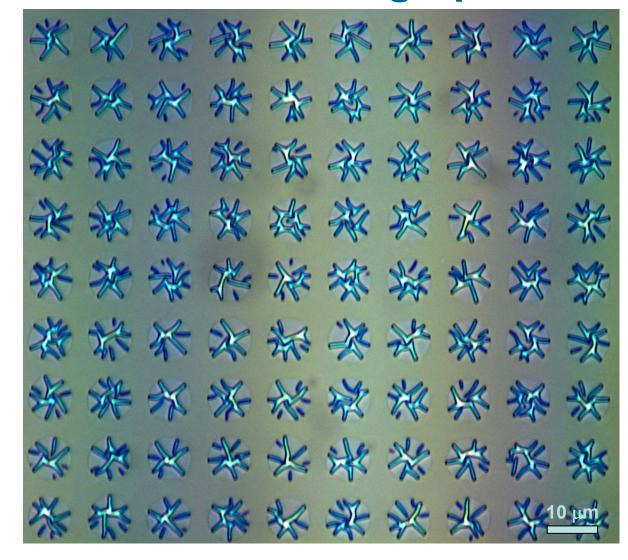


micro & nano - graph Title:

Logos of MNE 2006 Olympic Games

Description:

Optical image of semiconductor nanochannel network by **re**leasing and **bo**nd-back of **la**yers (REBOLA) technology.



Magnification: Scale on the picture Inst

Submitted by: Yongfeng Mei

Instrument: AxioCam MR

Affiliation: Max-Planck Institute for Solid State Research,

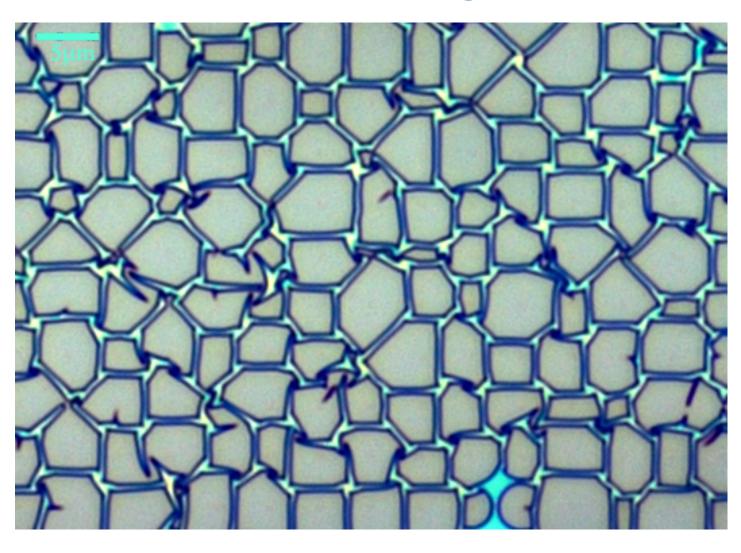


micro & nano - graph Title:

Satellite map of nano-world

Description:

Optical image of semiconductor nanochannel network by **re**leasing and **bo**nd-back of **la**yers (REBOLA) technology.



Magnification: Scale on the picture

Submitted by: Yongfeng Mei

Instrument: AxioCam MR

Affiliation: Max-Planck Institute for Solid State Research,

IIIN = 2006 micro & nano - graph Contest

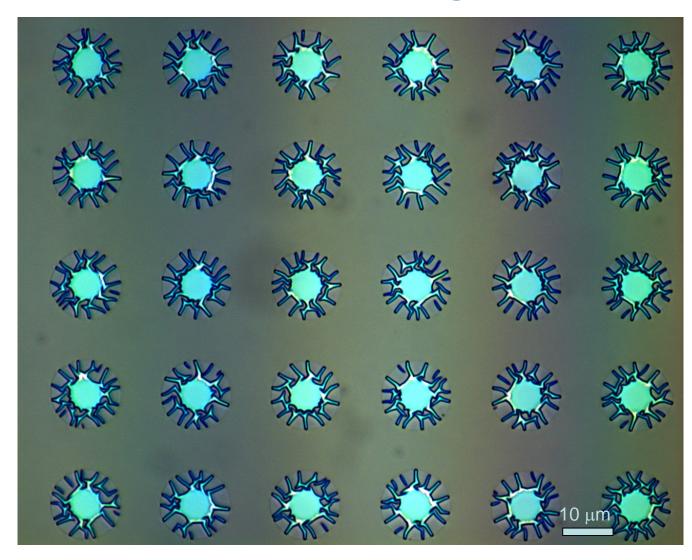


micro & nano - graph Title:

Who would like to fight with octopus army?

Description:

Optical image of semiconductor nanochannel network by **re**leasing and **bo**nd-back of **la**yers (REBOLA) technology.



Magnification: Scale on the picture

Submitted by: Yongfeng Mei

Instrument: AxioCam MR

Affiliation: Max-Planck Institute for Solid State Research,

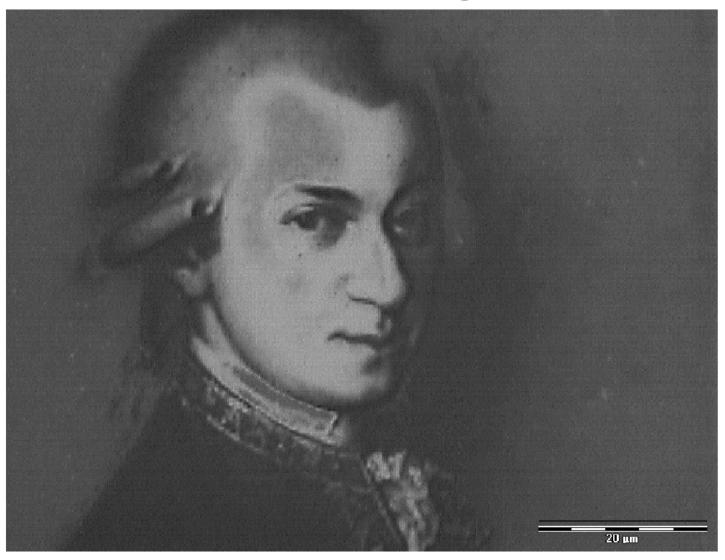


micro & nano - graph Title:

Tatatataa - ah, Mozart!

Description:

Result of printing a real 3D structure in a UV-NIL process. Greyscale level represents depth of the structure.



Magnification: 1200X Instrument: LEICA INM 100 (optical microscope)

Submitted by: Guido Piaszenski Affiliation: Raith GmbH, Germany



micro & nano - graph Title:

Tatatataa - ah, Mozart!

Description:

Result of printing a real 3D structure in a UV-NIL process. Greyscale level represents depth of the structure.



Magnification: 1200X Instrument: LEICA INM 100 (optical microscope)

Submitted by: Guido Piaszenski Affiliation: Raith GmbH, Germany

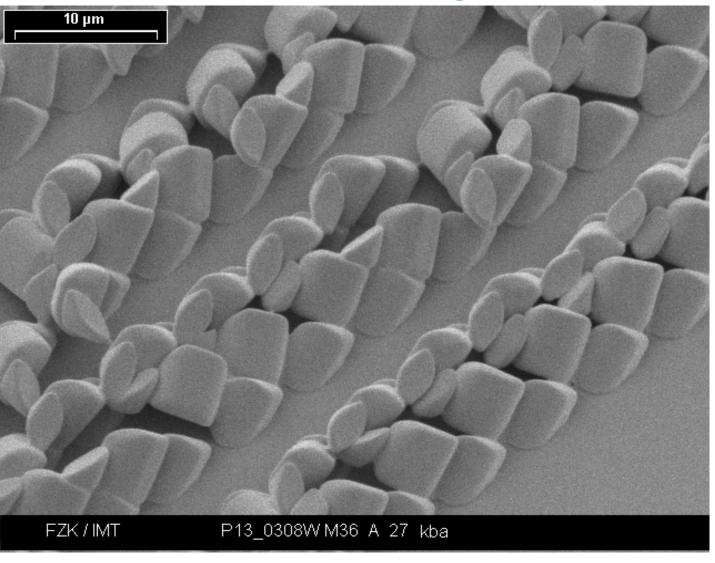


micro & nano - graph Title:

PMMA ruins

Description:

X-ray lithography of a 10 µm PMMA film, tilted under ± 45°. Remaining columns after 1st step of exposure are cut in pieces with 2nd exposure, those remain lying in order like an ancient stone wall.



Magnification: 2000X Instrument: M. MIKRONA SEM 525 M (Philips)

Submitted by: Timo Mappes Affiliation: Forschungszentrum Karlsruhe GmbH, Germany



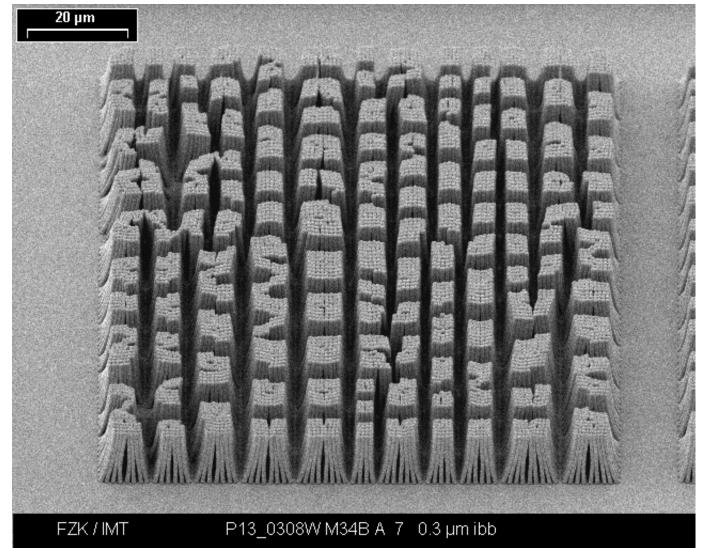
micro & nano - graph Title: German ordered collapse

Description:

X-ray lithography of a 5 µm PMMA film, 5625 columns with Ø 800 nm. While drying after wet development the columns are torn to each other due to capillary forces and stay in semi-ordered fields.

Magnification: 740X Instrument: M. MIKRONA SEM 525 M (Philips)

Submitted by: Timo Mappes Affiliation: Forschungszentrum Karlsruhe GmbH, Germany



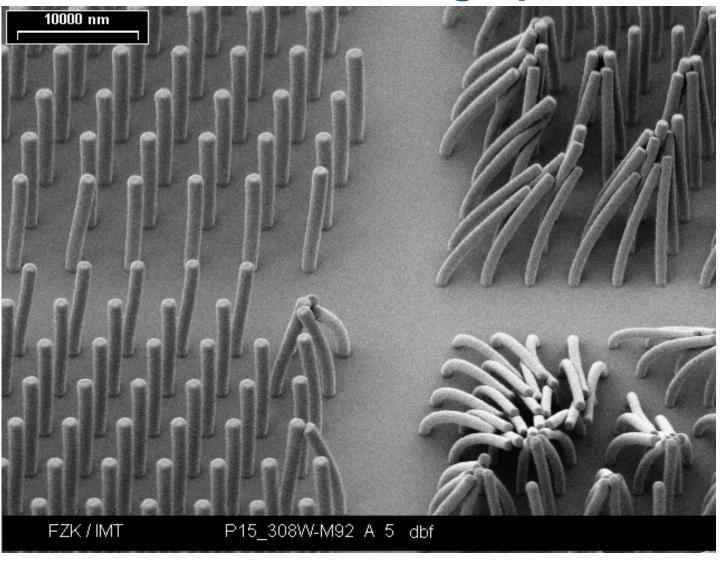


micro & nano - graph Title:

micro-Viagra® test arrays

Description:

X-ray lithography of a 10 µm SU-8 film, fields of columns with different diameter and pitch. Patterns as indicators for the limit of stability.



Magnification: 1700X Instrument: M. MIKRONA SEM 525 M (Philips)

Submitted by: Timo Mappes Affiliation: Forschungszentrum Karlsruhe GmbH, Germany

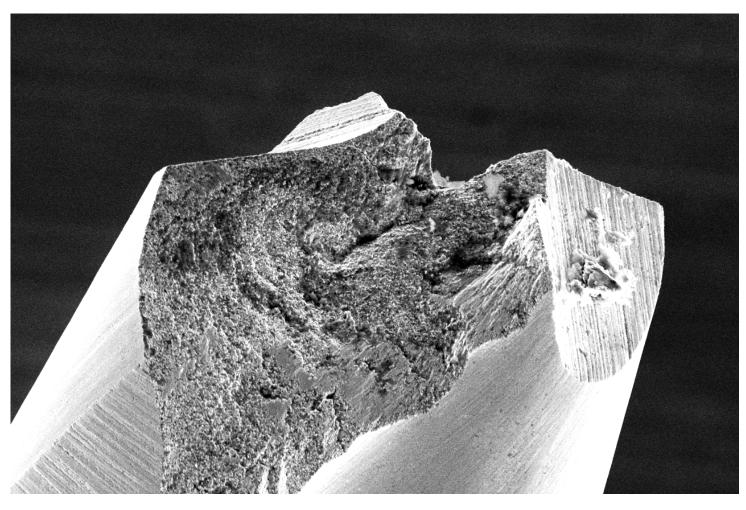


micro & nano - graph Title:

Mountain Top

Description:

Used micro-mill tool. The tool initial diameter was 200 µm.



Magnification: Scale on the picture

Submitted by: Ramona Mateiu

Instrument: Jeol JSM 5500 LV SEM at DANCHIP, Denmark

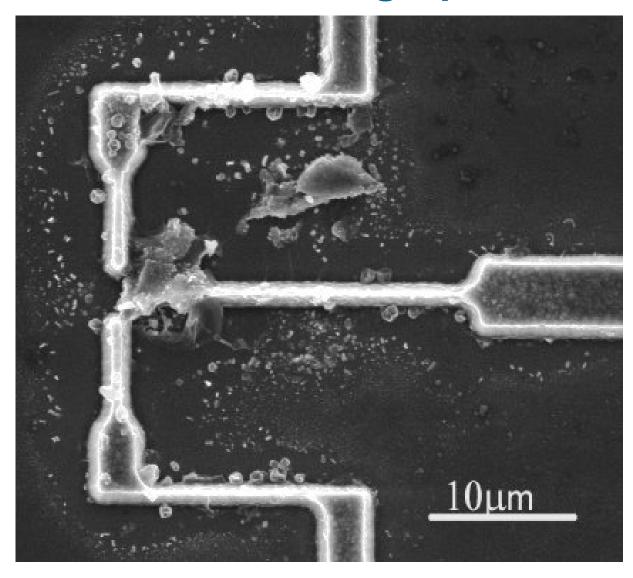


micro & nano - graph Title:

Ice Age

Description:

Clusters of Fe₂O₃ nanoparticles microcontact printed on poly-Si microelectrodes.



Magnification: scale on the picture

Submitted by: Ramona Mateiu

Instrument: Philips XL 30 ESEM-FEG at CSEM S/A, Switzerland

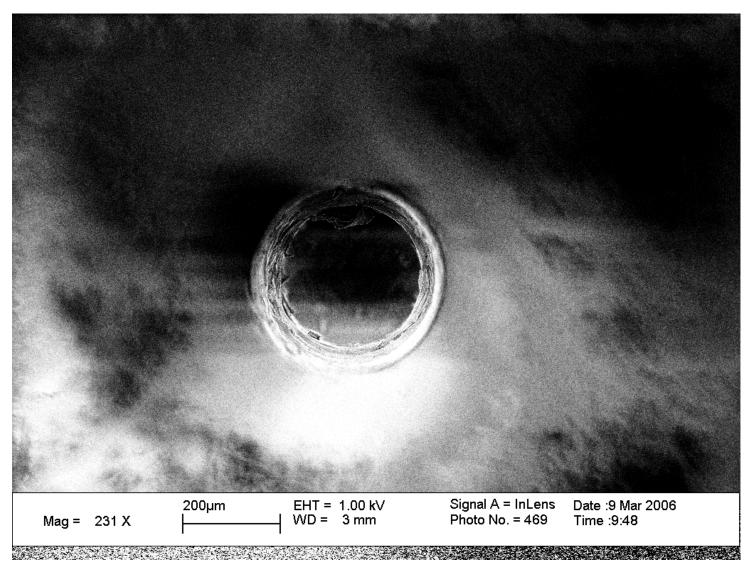


micro & nano - graph Title:

Black Moon

Description:

Hole milled in black-poly(methylmethacrylate) (i.e. COC/Topas® & carbon particles) with a 200 µm tool.



Magnification: scale on the picture

Submitted by: Ramona Mateiu

Instrument: LEO 1500 SEM-EDX at DANCHIP, Denmark

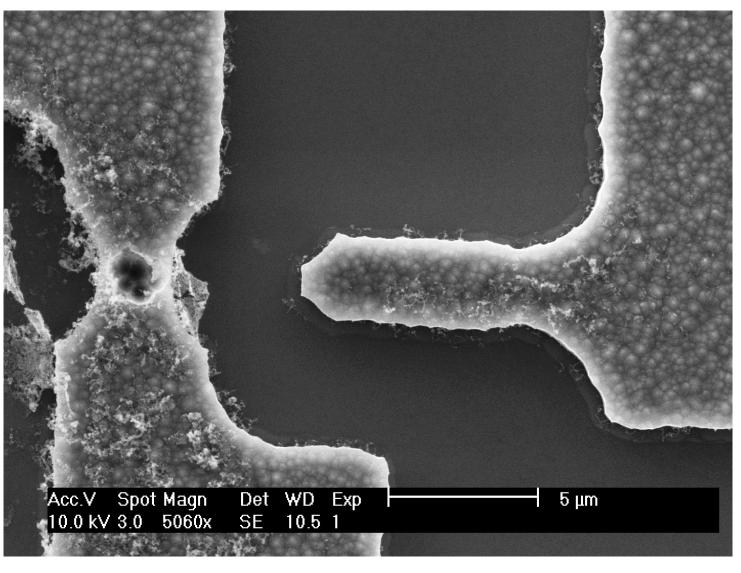


micro & nano - graph Title:

the Microscale

Description:

Carbon nanotubes grown by electric field assisted chemical vapor deposition on poly-Si microelectrodes.



Magnification: scale on the picture

Submitted by: Ramona Mateiu

Instrument: Philips XL 30 ESEM-FEG at CSEM S/A, Switzerland

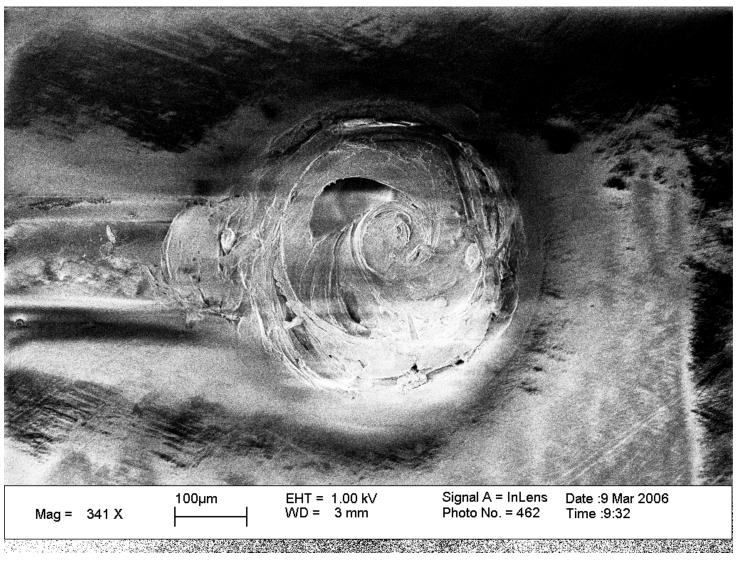


micro & nano - graph Title:

The Rose

Description:

Attempt to micro-mill a hole, 200 µm diameter, in black - poly(methylmethacrylate) (COC/Topas® with carbon particles). The milling speed was to high and the polymer melted.



Magnification: scale on the picture

Submitted by: Ramona Mateiu

Instrument: LEO 1500 SEM-EDX at DANCHIP, Denmark

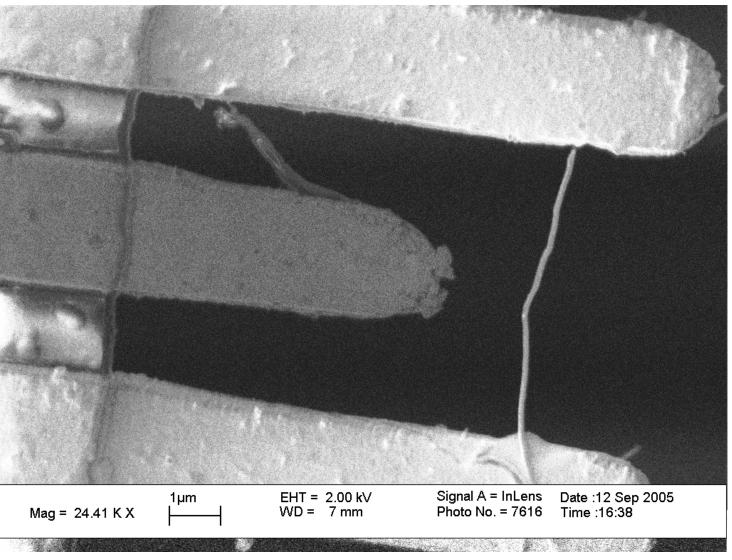


micro & nano - graph Title:

Nano Bridge

Description:

A single multi-walled carbon nanotube suspended between gold microelectrodes. A voltage is applied between the middle microelectrode and the outer ones with the nanotube. The middle microelectrode is grounded and therefore appears darker in the micrograph.



Magnification: scale on the picture

Submitted by: Ramona Mateiu

Instrument: LEO 1500 SEM-EDX at DANCHIP, Denmark

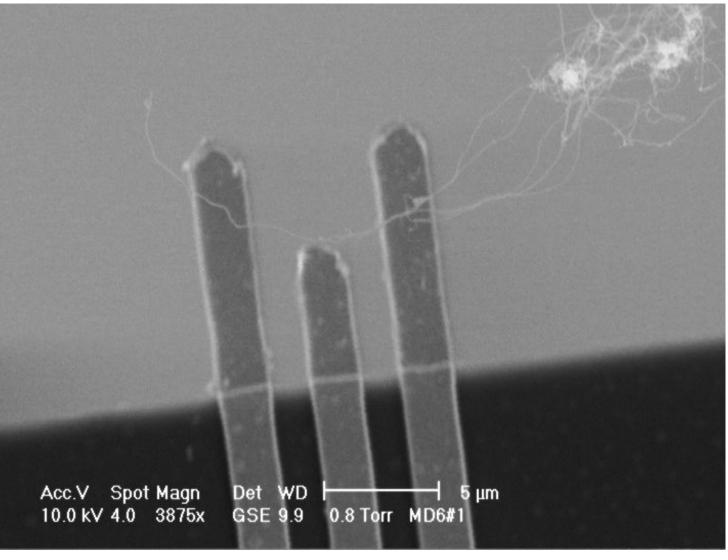


micro & nano - graph Title:

Spaghetti à la Nano

Description:

Gold microelectrodes approaching a single multi-walled carbon nanotube which extends in the open space from a bundle.



Magnification: scale on the picture

Submitted by: Ramona Mateiu

Instrument: E-SEM FEI XL 30, FEG at Haldor Topsøe A/S, Denmark

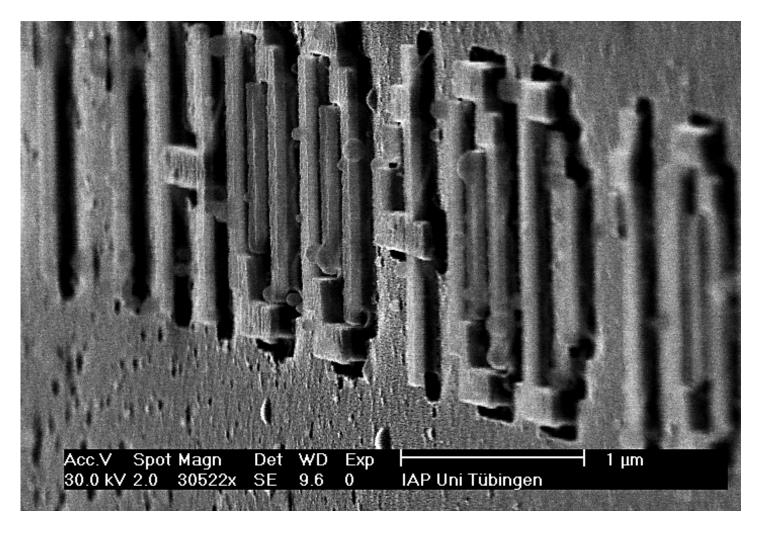


micro & nano - graph Title:

Letters

Description:

Wet etched stamp for nanoimprint lithography. The letters are e-beam written into HSQ (Hydrogen Silsesquioxane) followed by development and a wet etch process with KOH.



Magnification: Scale on the picture
Instrument: Philips XL30

Submitted by: Michael Häffner Affiliation: Institute of Applied Physics, University of Tübingen

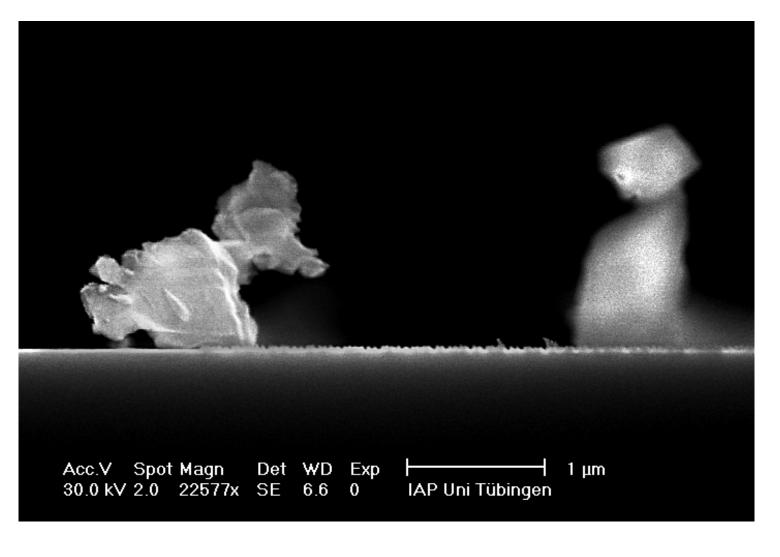


micro & nano - graph Title:

The Dog

Description:

Side view of two silicon particles, one reminding a dog and one reminding its owner. Infront of the dog parallel HSQ (Hydrogen Silsesquioxane) lines can be seen that look like gras.



Magnification: Scale on the picture
Instrument: Philips XL30

Submitted by: Michael Häffner Affiliation: Institute of Applied Physics, University of Tübingen



micro & nano - graph Title:

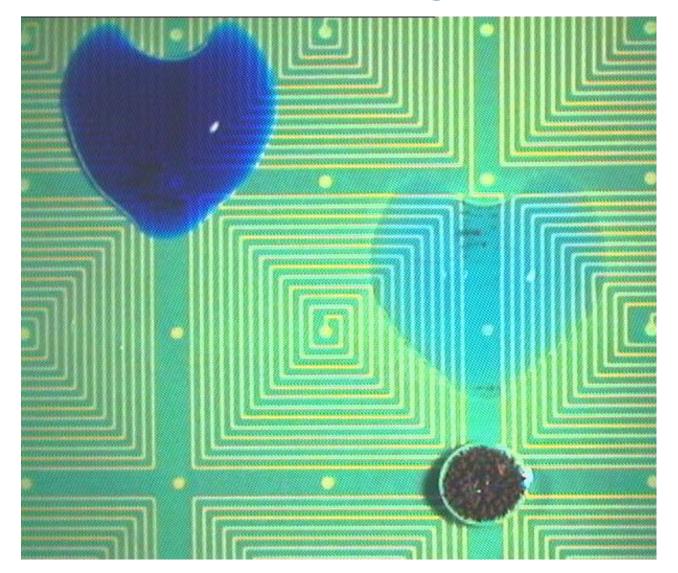
A tale of three droplets

Description:

Two immobilized colored water droplets and a droplet filled with magnetic particles on a Teflon surface over a Printed Circuit Board. The Teflon was locally treated with oxygen plasma to generate a hydrophilic pattern.

Magnification: 14X

Submitted by: Ulrike Lehmann



Instrument: Zeiss Stemi SV6

Affiliation: EPFL, Lausanne, Switzerland



micro & nano - graph Title:

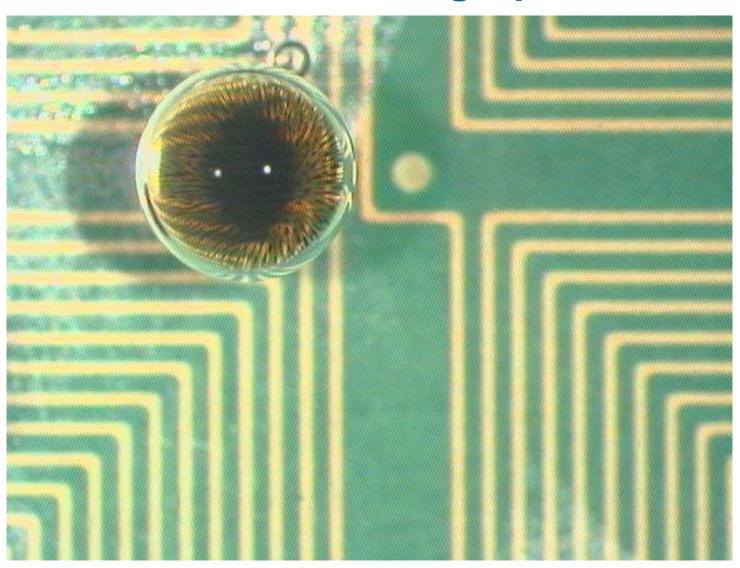
Little brother is watching you!

Description:

A magnetically actuated 1 µl water droplet containing super-paramagnetic particles of 250 nm diameter over a Teflon covered multilayer Printed Circuit Board. The droplet is submerged in silicone oil.

Magnification: 32x Instrument: Zeiss Stemi V6

Submitted by: Ulrike Lehmann Affiliation: EPFL, Lausanne, Switzerland

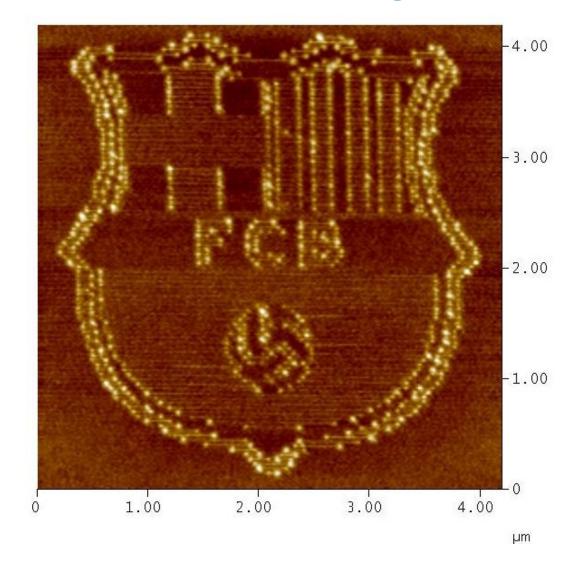




micro & nano - graph Title:

More than a **Football Club**

Description: AFM topographic image of a local oxidation performed using AFM on a silicon wafer.



Magnification: Instrument: Dimension 3100, Veeco

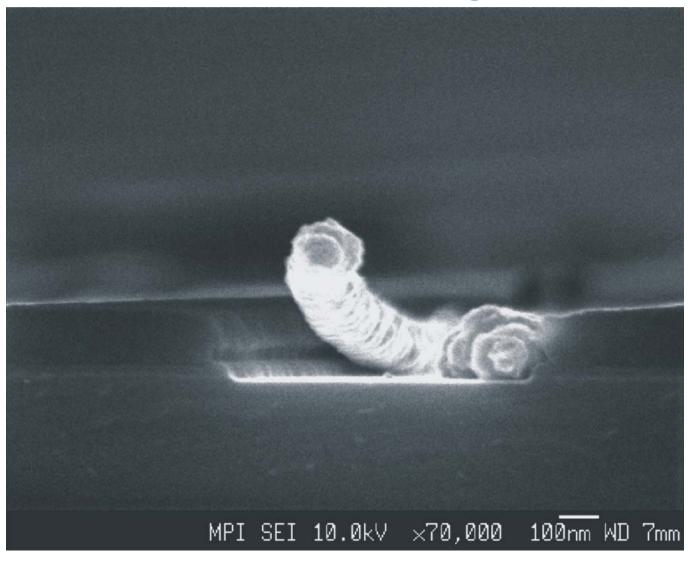
Submitted by: Cristina Martin Olmos Affiliation: IMB-CNM-CSIC, Spain



micro & nano - graph Title: nano worm

Description:

Cross-section of electrodeposited gold nanowires on Si substrate.



Magnification: 70000x Instrument: JEOL JSM 6340

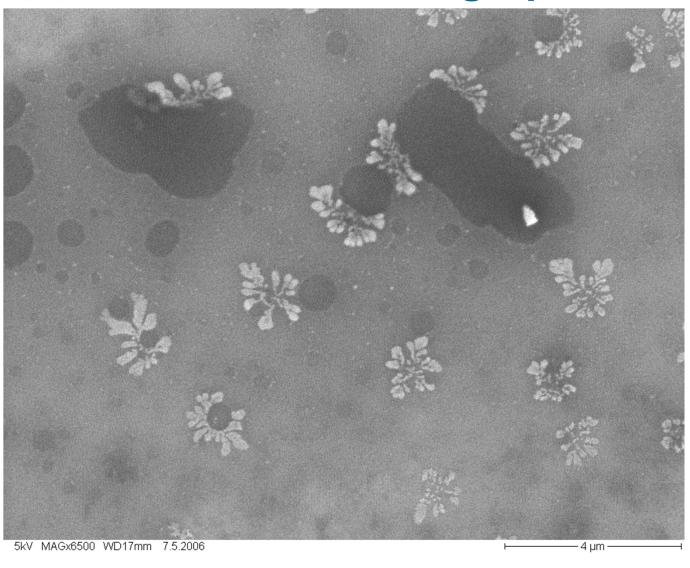
Submitted by: Ran Ji Affiliation: Max-Planck-Institute of microstructure physics, Germany



micro & nano - graph Title: broccoli

Description:

Patterned Si substrate after electrochemical etching and cleaning.



Magnification: 6500x Instrument: JEOL JSM 6300

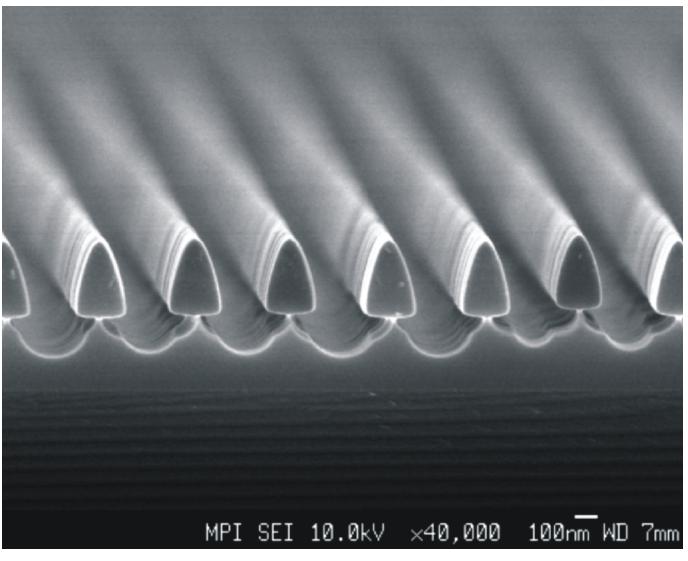
Submitted by: Ran Ji Affiliation: Max-Planck-Institute of microstructure physics, Germany



micro & nano - graph Title: black spade array

Description:

Nanowire array fabricated on SOI wafer by using interference lithography and isotropic HF etching.



Magnification: 40000x

Submitted by: Ran Ji

Instrument: JEOL JSM 6340

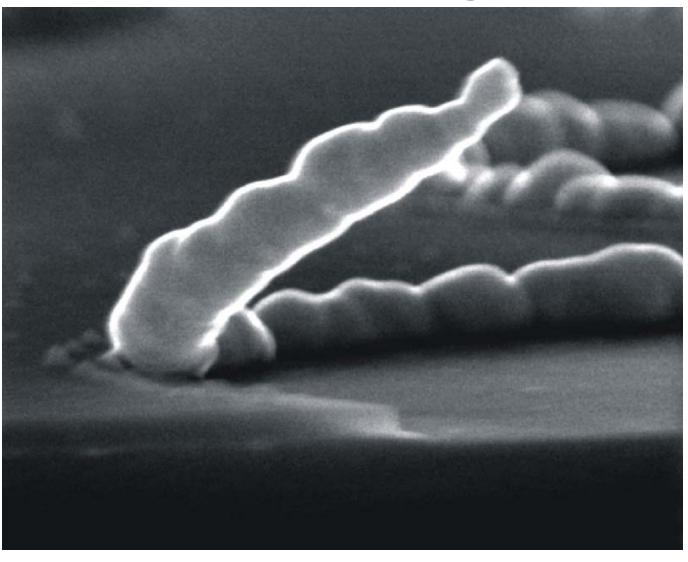
Affiliation: Max-Planck-Institute of microstructure physics, Germany



micro & nano - graph Title: nano criocodile

Description:

A part of Au nanowire fabricated by templated electrodeposition



Magnification: 306000x Submitted by: Ran Ji **Instrument: JEOL JSM 6340**

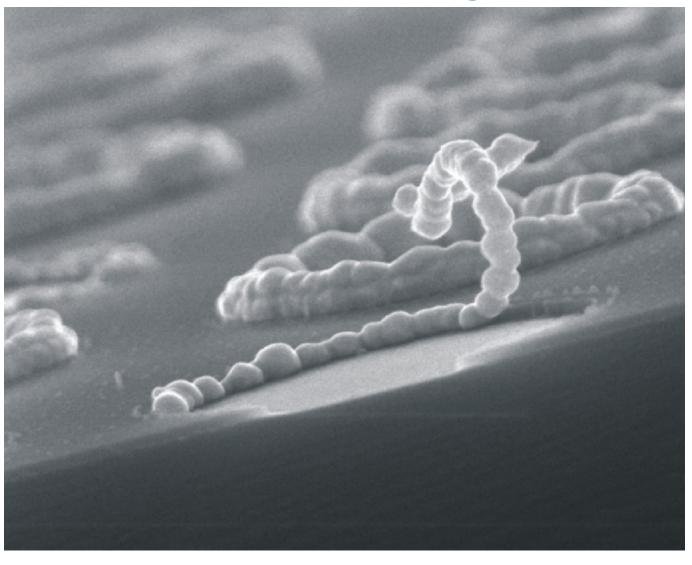
Affiliation: Max-Planck-Institute of microstructure physics, Germany



micro & nano - graph Title: nano snake

Description:

Bowing of a gold nanowire



Magnification: 124000x Instrument: JEOL JSM 6340

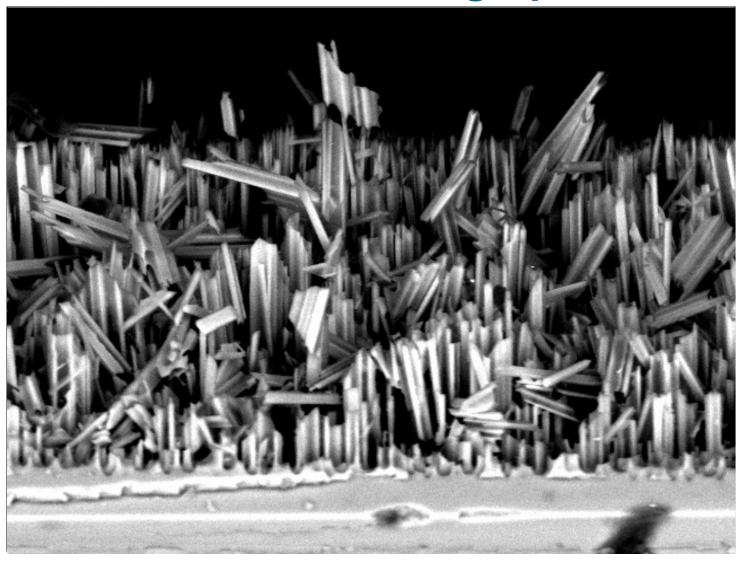


micro & nano - graph Title:

The Fall of the Crystal Jungle

Description:

A broken silicon macroporous structure built on P-type silicon wafer.



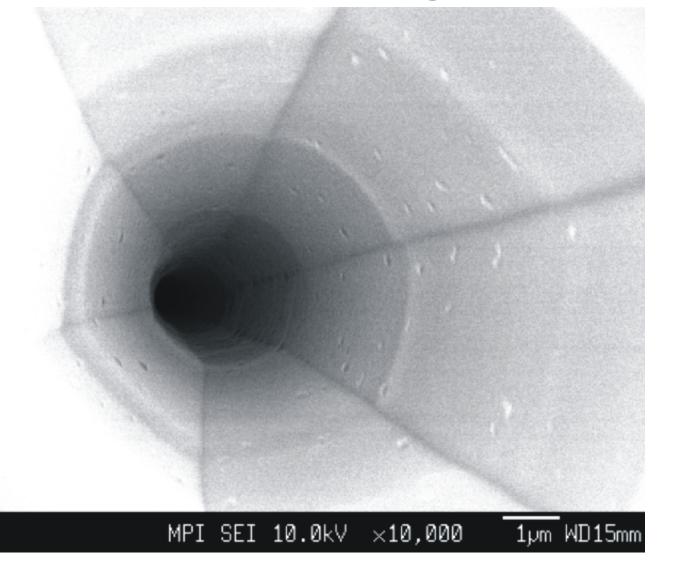
Magnification: 500x Instrument: Philips XL30cp, SEM



micro & nano - graph Title: time tunnel

Description:

Anisotropic electrochemical etched Si hole



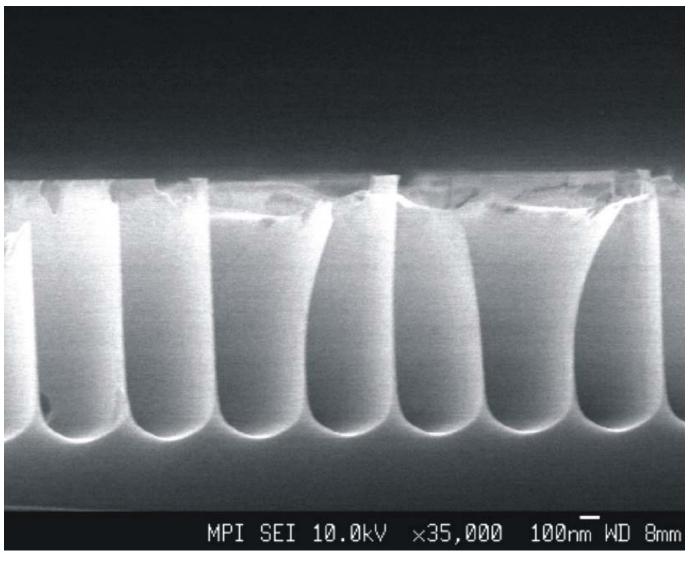
Magnification: 10000x Instrument: JEOL JSM 6340



micro & nano - graph Title: silicon paper

Description:

(110) Si structure after oxidation and Hf etching formed very thin Si nanofins



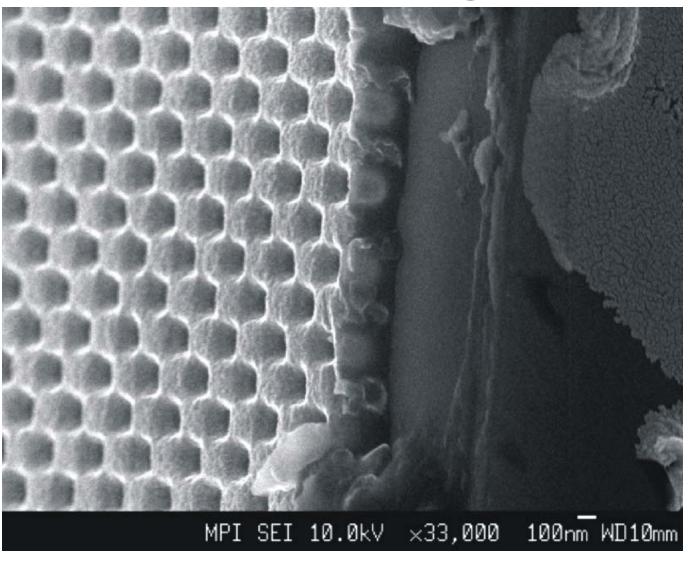
Magnification: 35000x Instrument: JEOL JSM 6340



micro & nano - graph Title: honeycomb

Description:

Photoresist structure obtained by interference lithography



Magnification: 33000x Instrument: JEOL JSM 6340

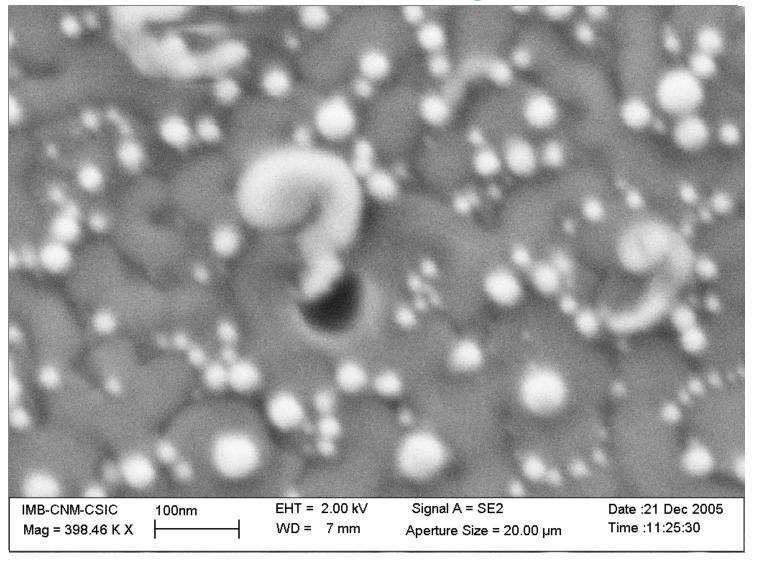


micro & nano - graph Title:

Little worm

Description:

Amorphous carbon nanotube grown on a metal surface



Magnification: 398. kX Instrument: Leo 1530 SEM

Submitted by: Gemma Rius Affiliation: IMB-CNM-CSIC, Spain

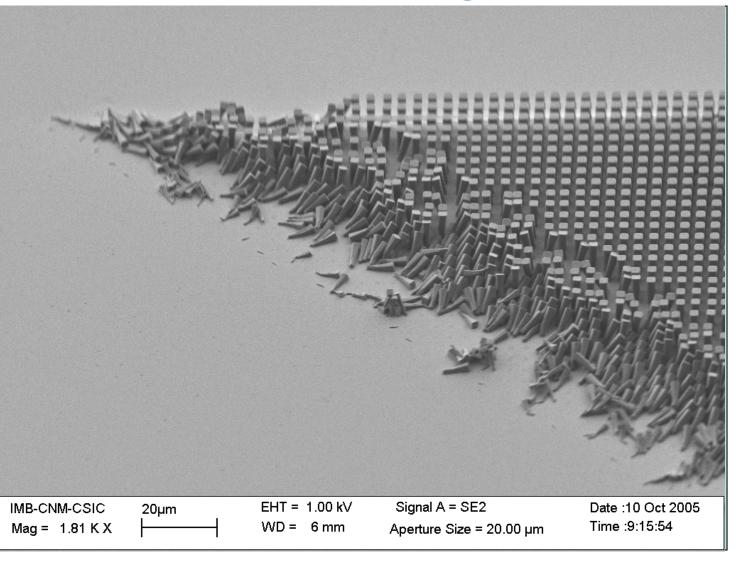


micro & nano - graph Title:

The wave

Description:

Optical lithography on SU-8 resist after development.



Magnification: 1.81 kX Instrument: Leo 1530 SEM

Submitted by: Gemma Rius Affiliation: IMB-CNM-CSIC, Spain

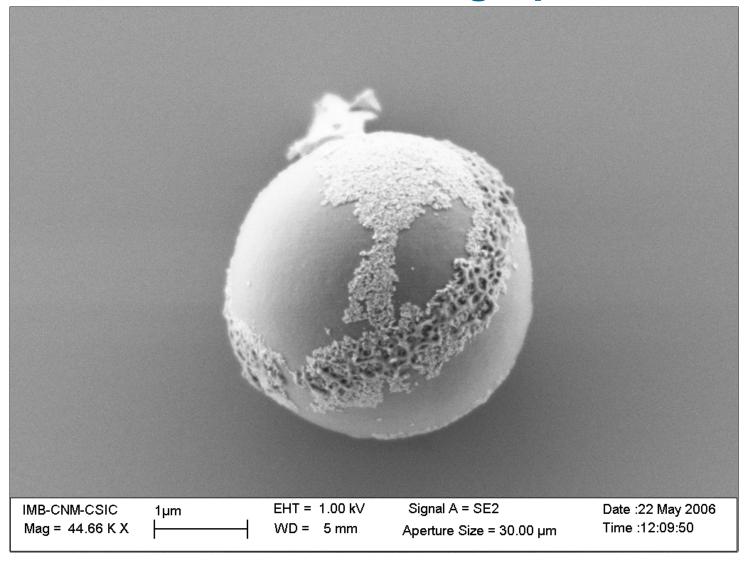


micro & nano - graph Title:

The other Earth

Description:

Polymer residues on a Si surface



Magnification: 44.66 kX Instrument: Leo 1530 SEM

Submitted by: Gemma Rius Affiliation: IMB-CNM-CSIC, Spain

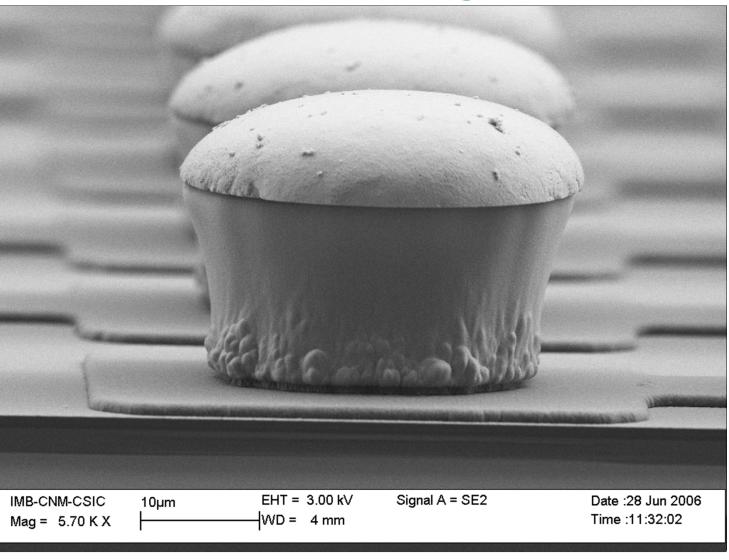


micro & nano - graph Title:

Muffins

Description:

Optimization of technology for solder bumps



Magnification: 5.7 kX Instrument: Leo 1530 SEM

Submitted by: Gemma Rius Affiliation: IMB-CNM-CSIC, Spain

Co-author: Marc Bigas



micro & nano - graph Title:

The Euro Etch Failure

Description:

HNA Isotropic etching of Silicon masked by Silicon Nitride. EURO-shaped etch failure



Magnification: 25x Instrument: Olympus Microscope

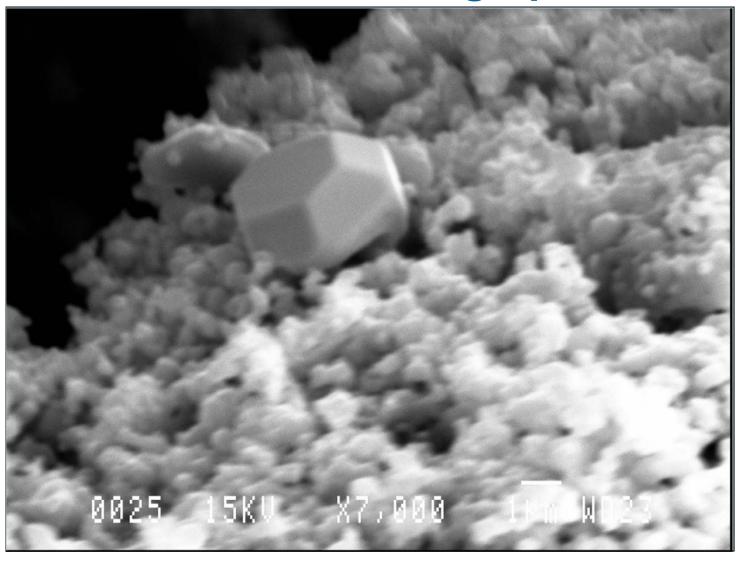
Submitted by: Alexander Doll Affiliation: IMTEK Freiburg, Germany



micro & nano - graph
Title: Platinum

Description:

Unusual agglomeration of platinum on the surface of nanosized titania.



Magnification: x7000 Instrument: Jeol JSM-840 (SEM)

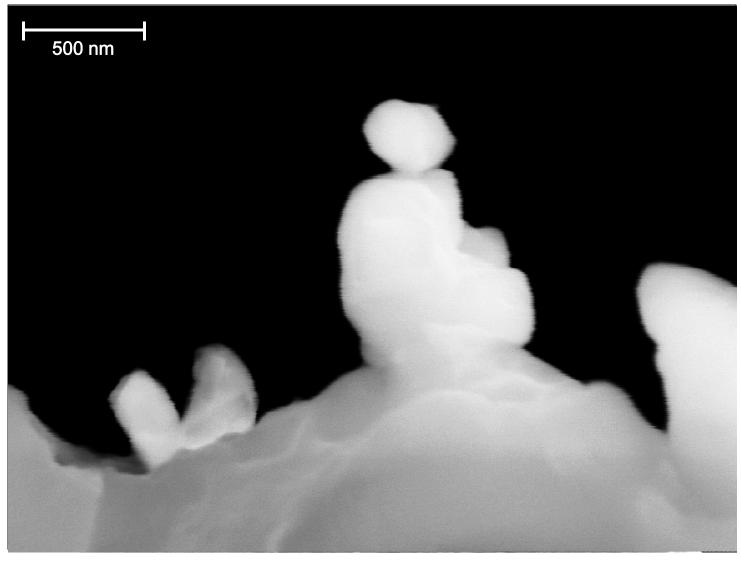
Submitted by: Ana Ruiz Affiliation: Joint Research Center, Italy



micro & nano - graph Title: Snowman watched by snow-bunny

Description:

Gold coating at the edge of a GaAs/AlGaAs-heterostructure sample after writing a lateral splitgate quantum dot and subsequent thin-film deposition and lift-off.



Magnification: see scale Instrument: Philips XL 30 SEM

Submitted by: Monika Fleischer Affiliation: University of Tuebingen, Germany

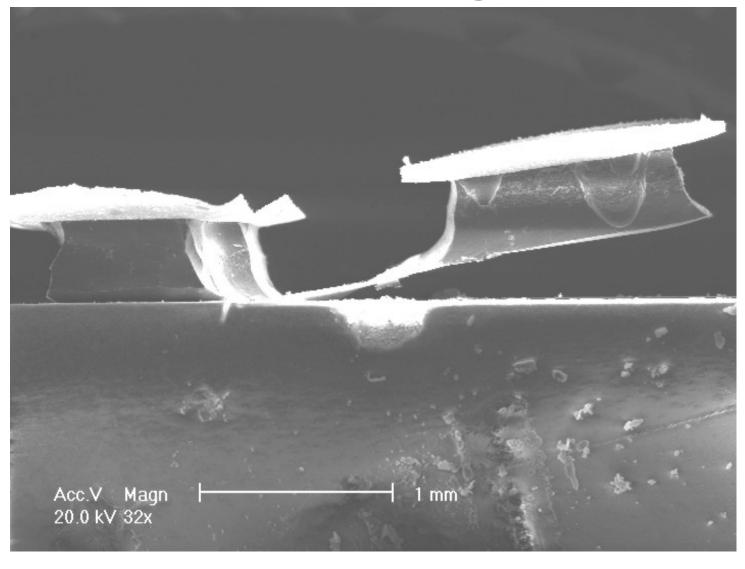


micro & nano - graph Title:

Let's Fly, Darling!

Description:

Silicon blocks are joined by 1µm aluminum layer. They should be anodically bonded to the pyrex substrate but one silicon block is released.



Magnification: 14x

Submitted by: Jon Ander

Etxeberria

Instrument: Philips XL30CP

Affiliation: CEIT, Microelectronics Unit, San Sebastian

(SPAIN)

IIIN = 2006 micro & nano - graph Contest



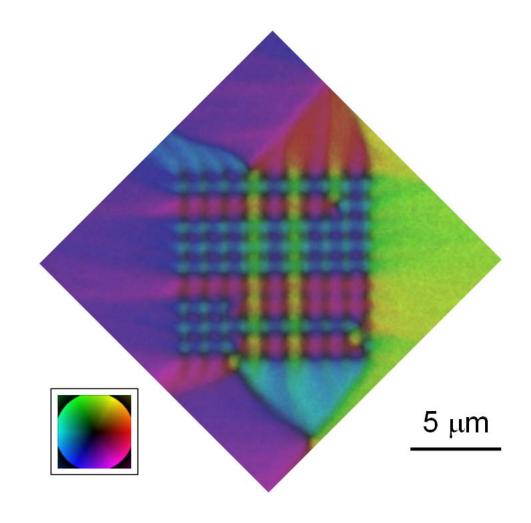
micro & nano - graph Title: **Carpet of Magnetic Colours**

Description:

A state-of-the-art x-ray microscopy technique reveals the magnetic spin orientations in a cobalt thin film with a regular array of holes created by electron beam lithography. The intricate colour pattern is reminiscent of a modern carpet design.

Magnification: See scale bar

Submitted by: Laura Heyderman



Instrument: X-ray Photoemission Electron Microscope at the SLS

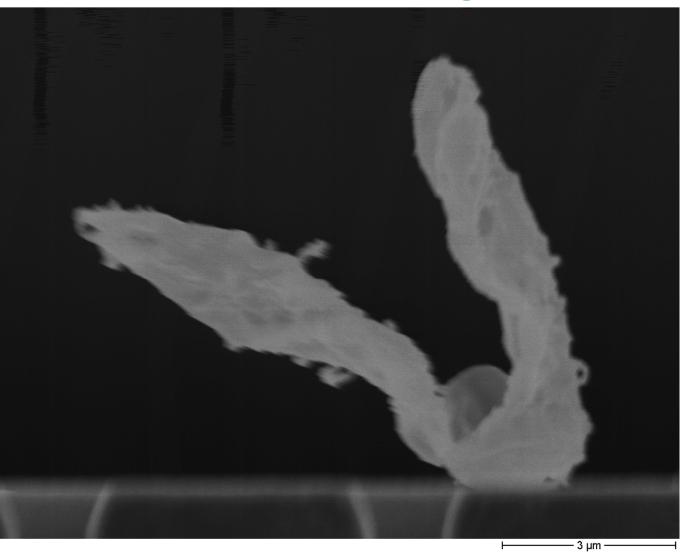
Affiliation: Paul Scherrer Institut, Switzerland



micro & nano - graph Title: hawk

Description:

Contamination on the macro porous silicon substrate.



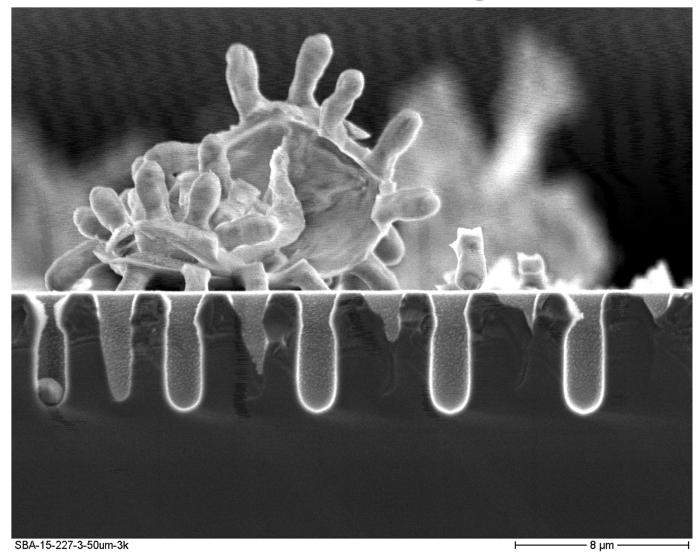
Magnification: scale on the picture Instrument: JEOL JSM 6300



micro & nano - graph Title: Monster in the starcraft

Description:

Contamination on the macro porous silicon substrate.



Magnification: scale on the picture
Instrument: JEOL JSM 6300



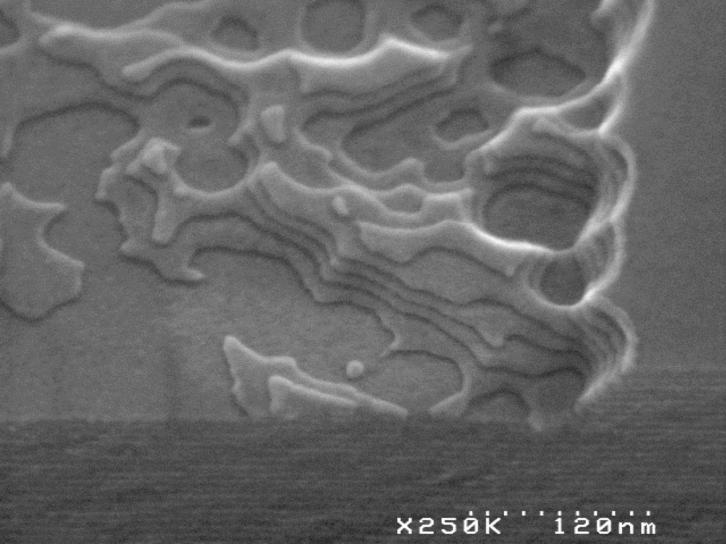
micro & nano - graph Title:

Nano Canyon

Description:

Plasma etching of 7 Mo(28Å)/Si(41Å) multilayer dedicated to Extreme UV mirrors.

The resist residues produce this Canyon like structure



Magnification: 250K X Instrument: Hitashi S5000 Scanning Electron Microscope

Submitted by: Richard Marieke Affiliation: CEA-LETI Grenoble France

Christophe Constancias



micro & nano - graph Title:

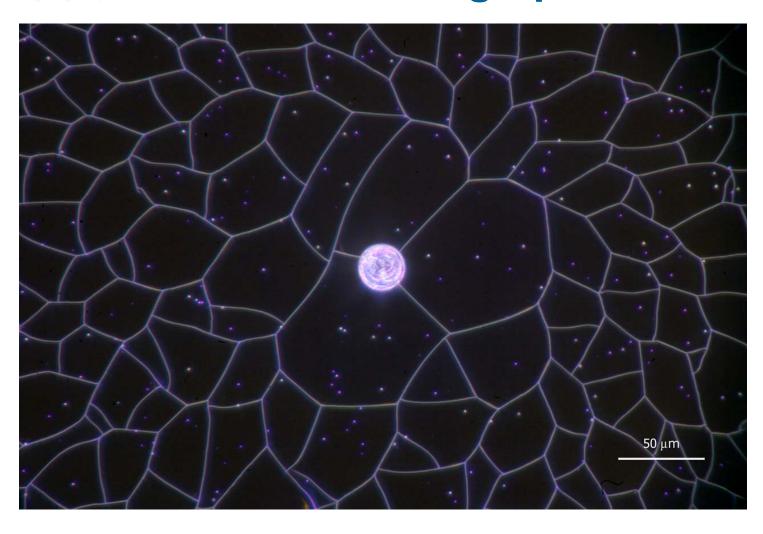
Earth caught in a Spiderweb

Description:

A high stress nitride film crazes after laser spot crystallization of a silicon film below. Almost every vertex has no more or less than three lines emanating from it.

Magnification: 300X

Submitted by: Daniel Witte



Instrument: In-situ microscope with Mitutoyo 50x objective

Affiliation: Stanford University, Stanford, California USA



micro & nano - graph Title:

SiO_x/Si Radial superlattice

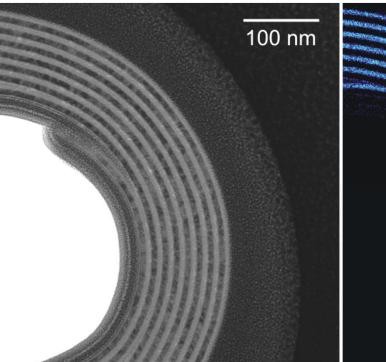
Description:

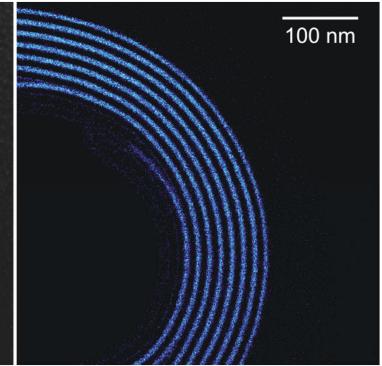
TEM (left) and energy filtered TEM (right) of a-SiO_/c-Si radial superlattices created by multiple rotations of SiO_x/Si layers. The right image shows in blue the area which contains oxygen corresponding to the SiO, regions in the tube walls.

Instrument: TEM and energy filtered TEM from LIBRA120, Zeiss

company, Oberkochen, Germany

Affiliation: Max-Planck Institut für Festkörperforschung,





Magnification: Scale on the picture

Submitted by: Rudeesun Songmuang Stuttgart, Germany



micro & nano - graph Title:

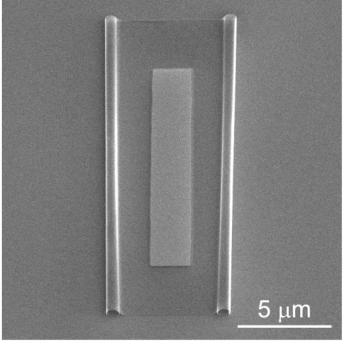
Twin tubes

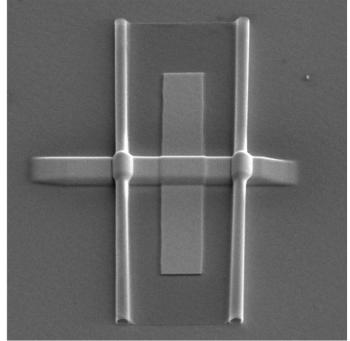
Description:

Tubes are created by releasing SiGe/Si strained bilayers from Si substrate. The lateral positioning of the tubes is made by lithography and reactive ion etching process (left). For crosssectional TEM sample preparation, the area of interest is covered by a few hundred nanometers of Pt (right).

Magnification: Scale on the picture

Submitted by: Rudeesun Songmuang Stuttgart, Germany





Instrument: FEI Nova 600 Nanolab, FEI Company, Eindhoven,

the Netherlands

Affiliation: Max-Planck Institut für Festkörperforschung,

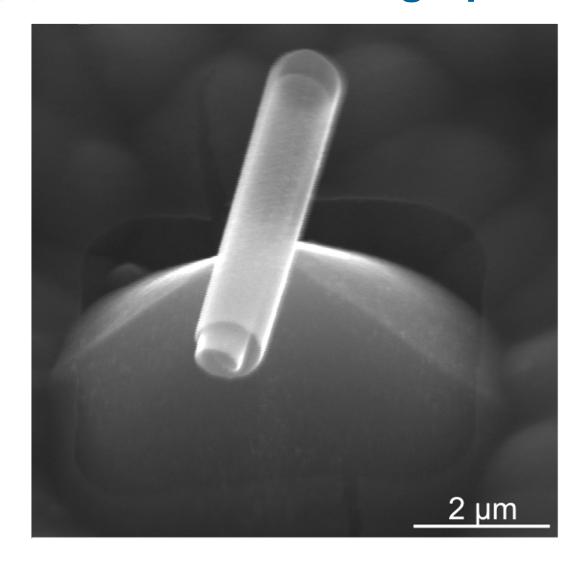


micro & nano - graph Title:

Single tube

Description:

Single tube is created by releasing a SiGe/Si strained bilayer from Si substrate. The lateral positioning of the structure is made by lithography and reactive ion etching process

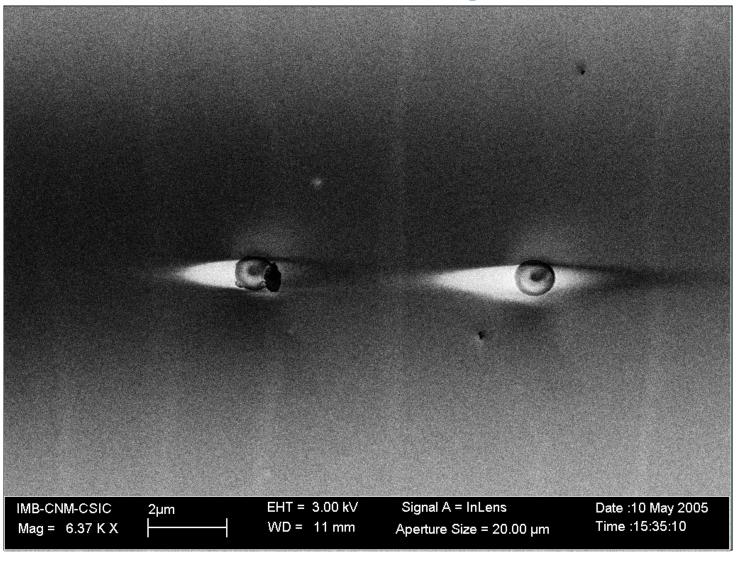


Submitted by: Rudeesun Songmuang Affiliation: Max-Planck Institut für Festkörperforschung,



micro & nano - graph Title: Who is looking at who?

Description: 1micron latex beads onto Silicon-100 Surface



Magnification: 6.37k X Instrument: LEO 32

Submitted by: Jordi Teva Affiliation: Mr.

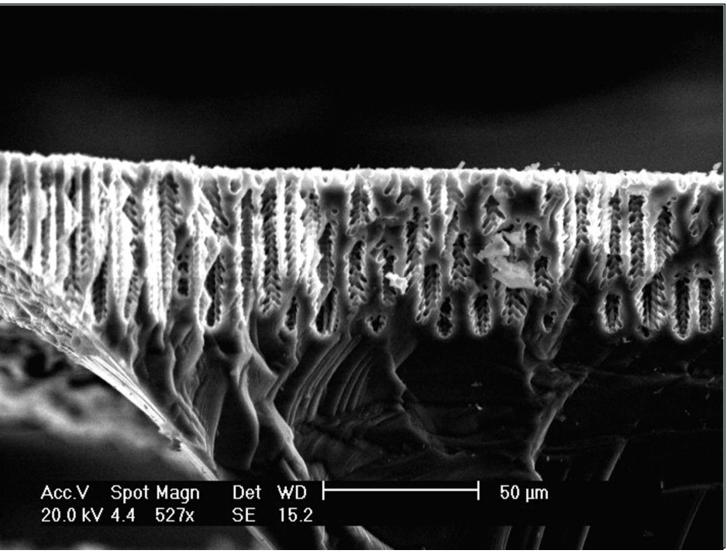


micro & nano - graph Title:

Cliff or Cave?

Description:

The edge of a crack in an anodized N-type silicon wafer which contains macropores.



Magnification: Scale on the picture Instrument: Philips XL30cp, SEM

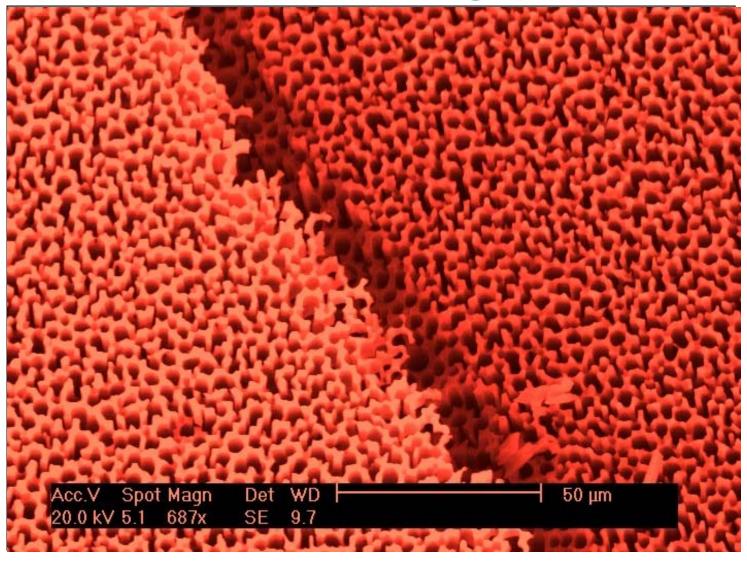


micro & nano - graph Title:

Coral Reef

Description:

The surface of an anodized P-type silicon wafer. The top of the macropores is broken along the crack.



Magnification: Scale on the picture Instrument: Philips XL30cp, SEM

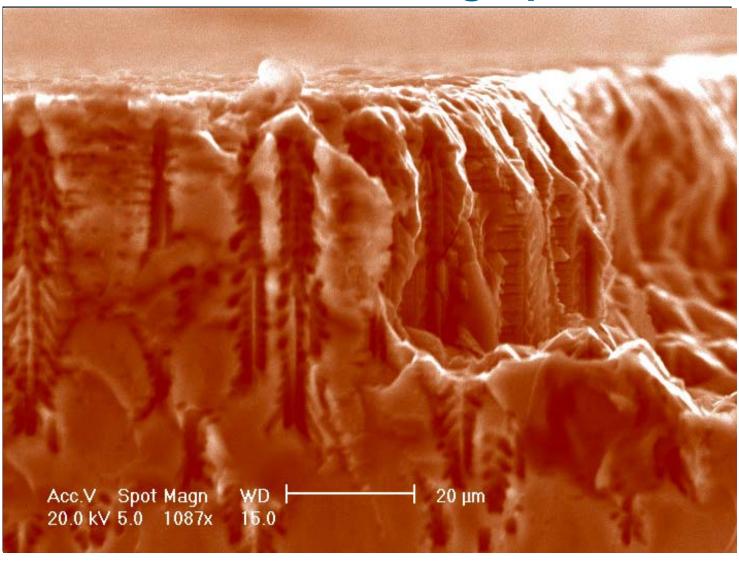


micro & nano - graph Title:

Sunset on Pepito Moreno

Description:

Macropores in N-type silicon, broken on the top of the wafer.



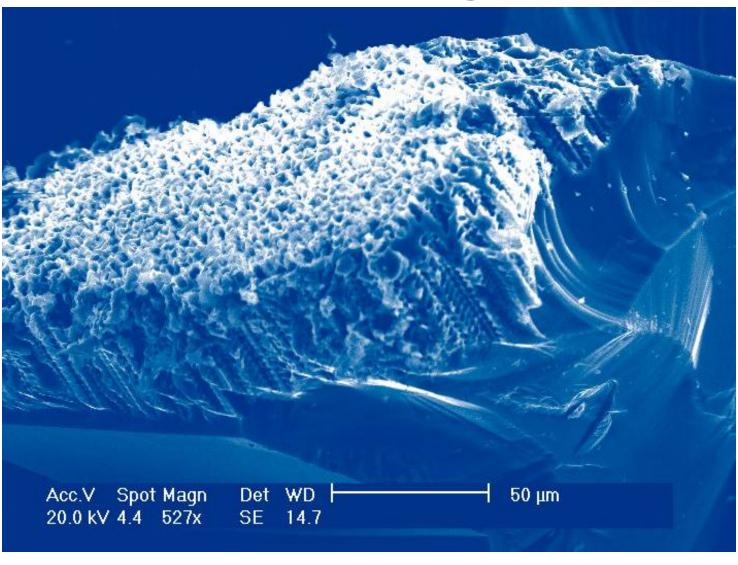


micro & nano - graph Title:

Hawaiian Wave

Description:

A broken piece of an Ntype silicon wafer containing macropores.



Magnification: Scale on the picture Ins

Submitted by: Ana Sancho

Instrument: Philips XL30cp, SEM

Affiliation: CEIT, Microsystems Unit (Spain)

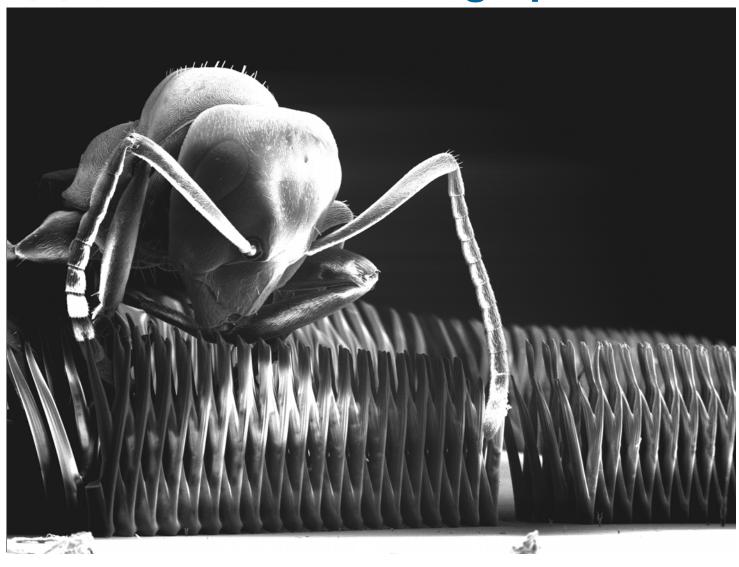


micro & nano - graph Title:

Ant filter

Description:

Ant examining the structural integrity of a gold/su8 filter structure



Magnification: x19

Submitted by: Mark Rosamond

Instrument: Hitachi S-2400

Affiliation: Durham University, UK

IIIN = 2006 micro & nano - graph Contest

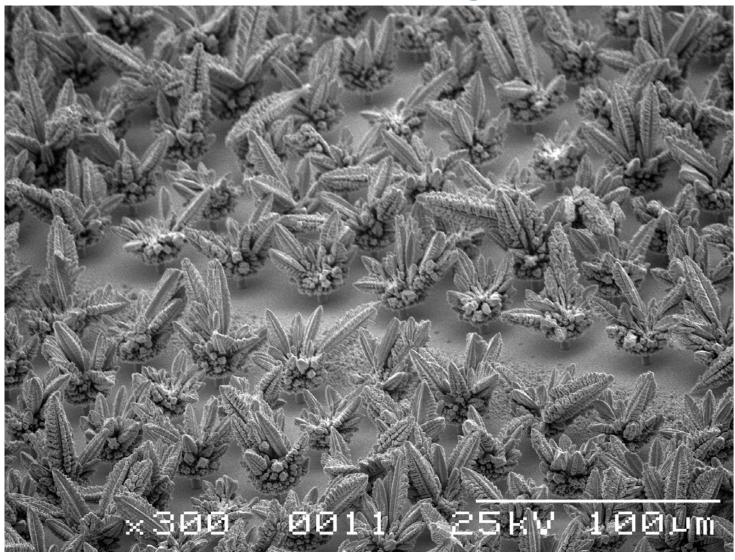


micro & nano - graph Title:

Gold plantation

Description:

Gold was overplated through a thick resist mould to create mushroom structures. The resist was then removed and plating continued at a higher current density. Dendritic growth occurred leading to this "forest" formation



Magnification: x340 Instrument: Hitachi S-2400

Submitted by: Mark Rosamond Affiliation: Durham University, UK

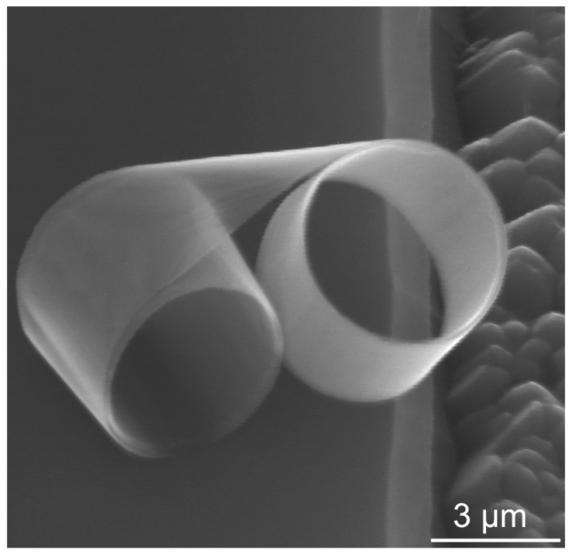


micro & nano - graph Title:

Twin micro-rings

Description:

Rolled-up SiGe/Si thin film after being released from Si substrate



Magnification: Scale on the picture

Submitted by: Rudeesun Songmuang

Instrument: Hitachi S-800 SEM

Affiliation: Max-Planck Institut für Festkörperforschung,

IIIN = 2006 micro & nano - graph Contest

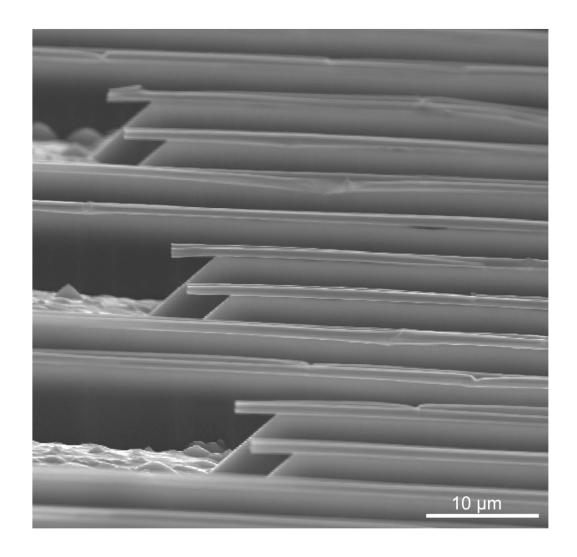


micro & nano - graph Title:

Parallel tubes

Description:

Tubes are created by releasing SiGe/Si strained bilayers from Si substrate. The lateral positioning of the rolled up tubes is made by lithography and reactive ion etching process.



Submitted by: Rudeesun Songmuang Affiliation: Max-Planck Institut für Festkörperforschung,

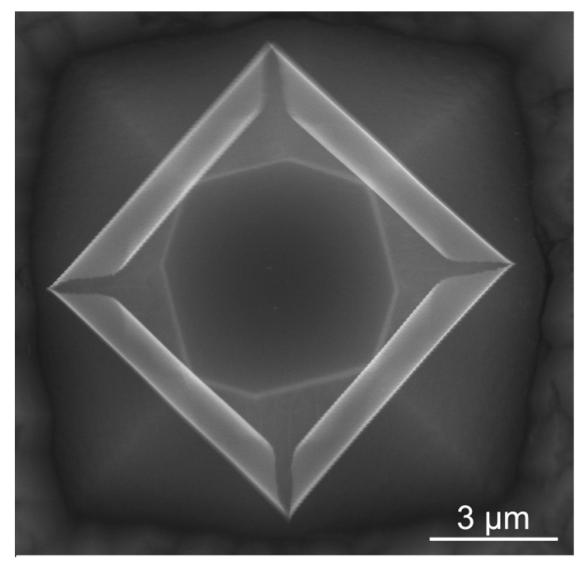


micro & nano - graph Title:

Four microtubes forming a square

Description:

The structure is created by releasing SiGe/Si strained bilayer from Si substrate. The lateral positioning of the structure is made by lithography and reactive ion etching process.



Magnification: Scale on the picture

Submitted by: Rudeesun Songmuang

Instrument: Hitachi S-800 SEM

Affiliation: Max-Planck Institut für Festkörperforschung,

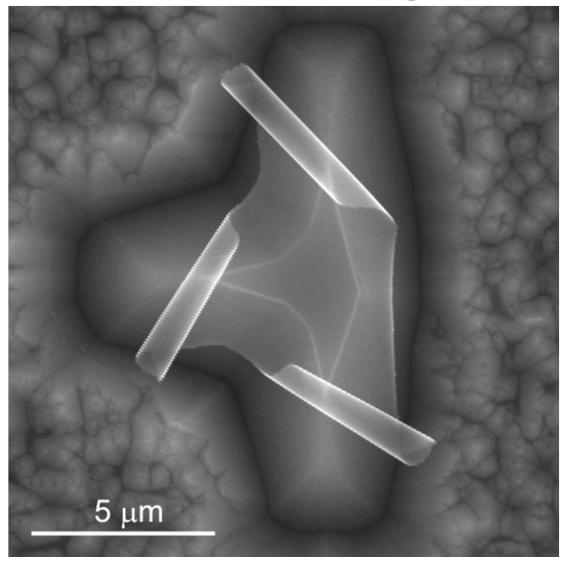


micro & nano - graph Title:

Micro Tubular

Description:

The structure is created by releasing SiGe/Si strained bilayer from Si substrate. Since the stripe pattern is aligned along the <110> direction, the bilayer preferentially rolls up along a direction approximately 45° tilted to the stripe orientation



Magnification: Scale on the picture In

Submitted by: Rudeesun Songmuang

Instrument: SEM Model S-800 Hitachi

Affiliation: Max-Planck Institut für Festkörperforschung,





micro & nano - graph

Title: Starry night

Description: SF₆ Plasma treatment on silicon surface

Magnification: AFM scan (5x5 μm) **Submitted by: Boulousis Georgios** Instrument: **Digital Instruments Atomic Force Microscopy**

Affiliation: **Institute of Microelectronics, NCSR Demokritos**

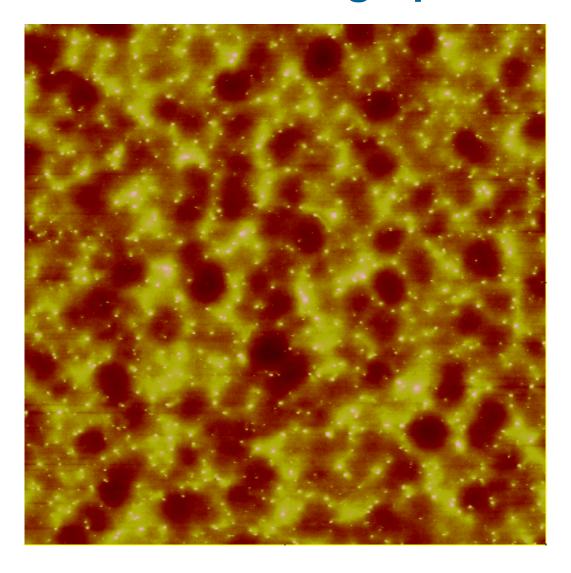




micro & nano - graph

Title: Nano galaxy

Description: SF₆ Plasma treatment on silicon surface



Magnification: AFM scan (5x5 μm) **Submitted by: Boulousis Georgios**

Affiliation:

Instrument: Digital Instruments Atomic Force Microscopy

Institute of Microelectronics, NCSR Demokritos



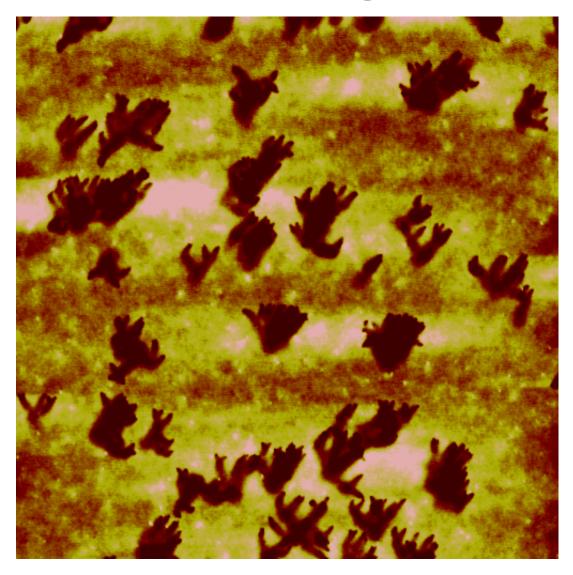


micro & nano - graph

Title: Nano-sapiens wall

painting

Description: SF₆ Plasma treatment on silicon surface



Magnification: AFM scan (5x5 μm)

Submitted by: Boulousis Georgios

Instrument: Digital Instruments Atomic Force Microscopy

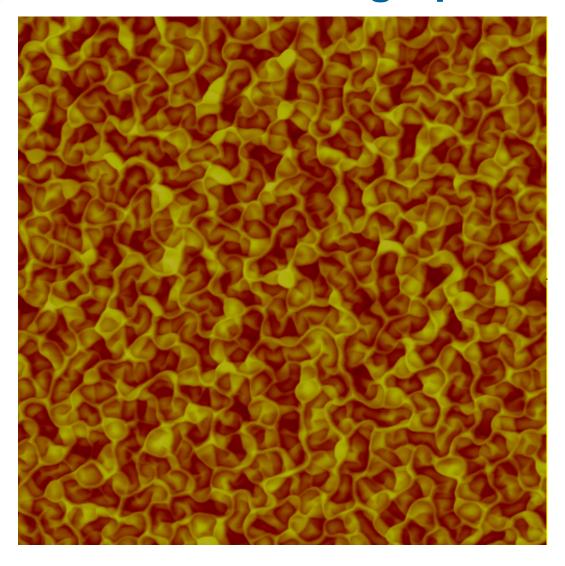
Affiliation: **Institute of Microelectronics, NCSR Demokritos**



micro & nano - graph

Title: Silicone ribbons

Description: Oxygen plasma treatment on PDMS surface



Magnification: AFM scan (5x5 μm)

Submitted by: Tsougeni Katerina

Instrument: Digital Instruments Atomic Force Microscopy

Affiliation: **Institute of Microelectronics, NCSR Demokritos**

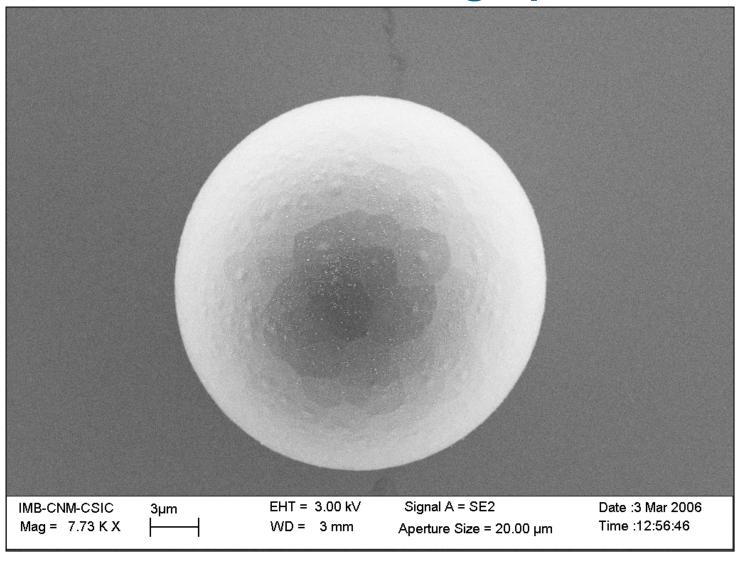


micro & nano - graph Title:

NANO-Planet

Description:

Sphere grown during a Carbon Nanotube growing process in a CVD chamber



Magnification: Instrument: Leo 1530 SEM

Submitted by: 7.73K X Affiliation: CNM - BARCELONA

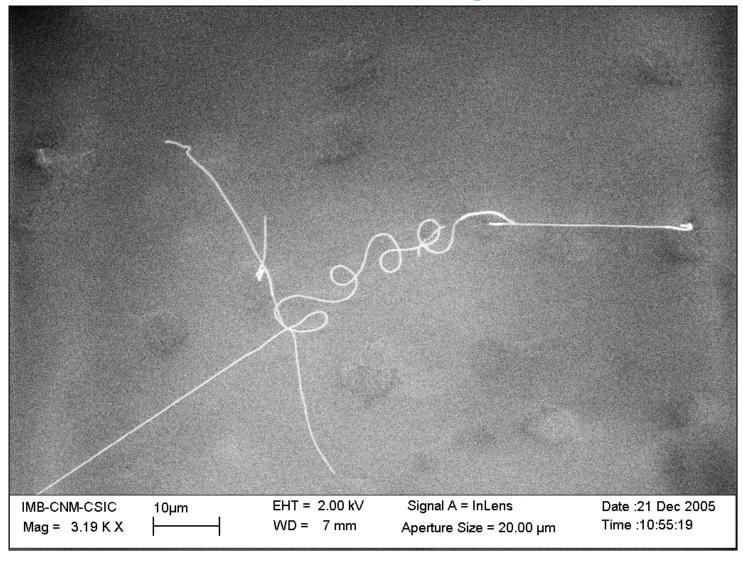


micro & nano - graph Title:

Signature

Description:

Carbon Nanotubes grown by CVD on Silicon Dioxide at high temperature



Magnification: Instrument: Leo 1530 SEM

Submitted by: 3.19K X Affiliation: CNM - BARCELONA

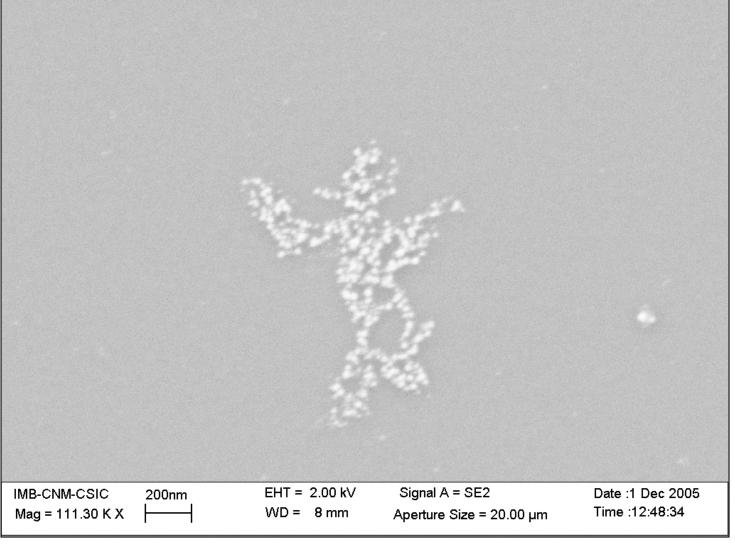


micro & nano - graph Title:

Smoking dancer

Description:

Iron nanoparticles deposited by spin coating on silicon dioxide



Magnification: Instrument: Leo 1530 SEM

Submitted by: 111.30 K X Affiliation: CNM - BARCELONA

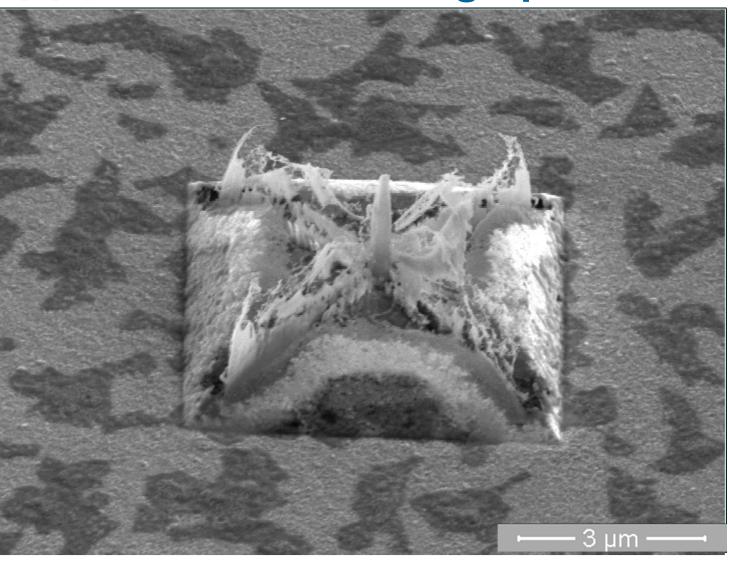


micro & nano - graph Title:

Lace on leopard

Description:

Over-etched Ni pyramid split in 4 by nitride walls



Magnification: 18k Instrument: NOVA200 NANO SEM

Submitted by: Edouard Duriau Affiliation: IMEC, kapeldreef 75, B3001 Leuven, Belgium

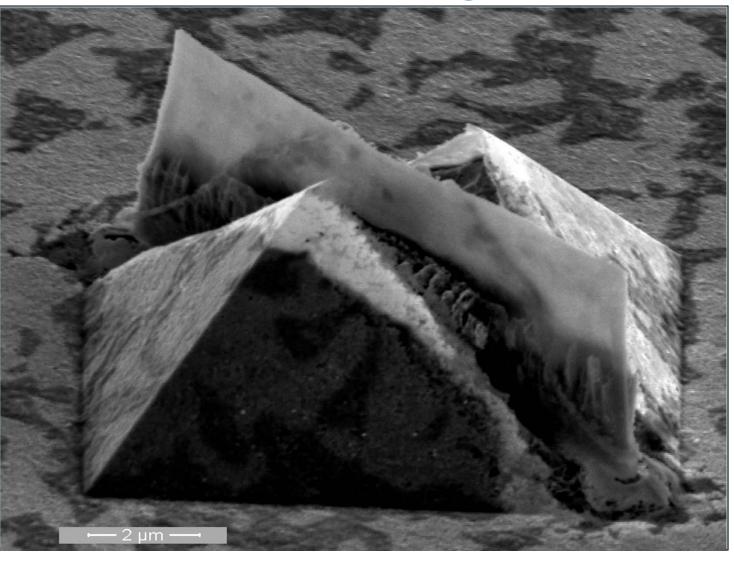


micro & nano - graph Title:

Discord fell on Gizeh

Description:

Under-etched pyramid.
The white material is Cu
with etched Ni
underneath



Magnification: 20k Instrument: NOVA200 NANO SEM

Submitted by: Edouard Duriau Affiliation: IMEC, kapeldreef 75, B3001 Leuven, Belgium

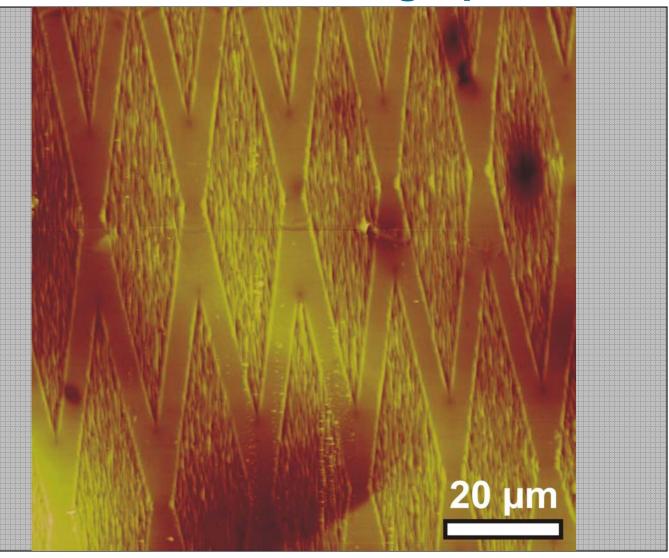


micro & nano - graph Title:

Micro-diamonds

Description:

Annealing the locally irradiated orientated PS substrate with ion beam above glass transition temperature causes deofmation of the substrate. The square shaped irradiated areas change to rhombus geometries.



Magnification:

Submitted by: Yogesh Karade

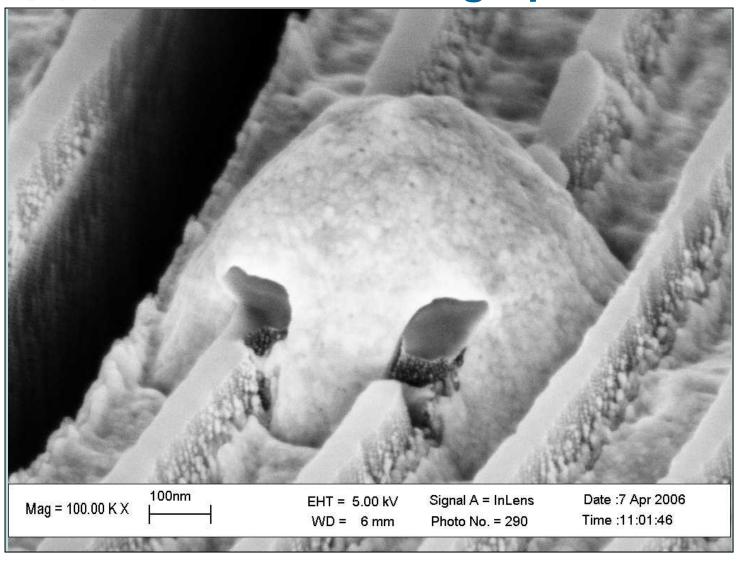
Instrument: Dimension 3100, AFM with nanoscope controller Affiliation: Max Planck Institute for Polymer Research, Mainz, Germany



micro & nano - graph Title:

Helmet of nanocrusader

Description:
Defect on gold Fresnel
zone plate after
electroplating and Ar
sputter etching.



Magnification: 100.000

Submitted by: Konstantins Jefimovs

Instrument: ZEISS SUPRA 55VP

Affiliation: Laboratory for Micro- and Nanotechnology, Paul

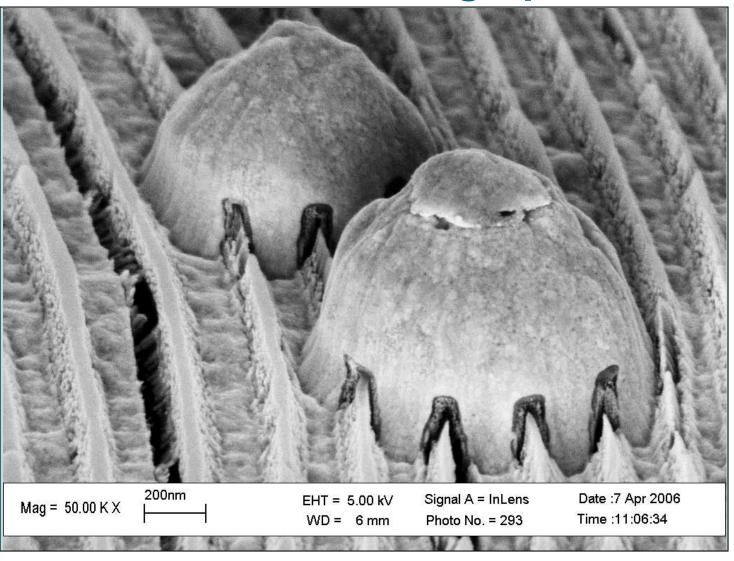
Scherrer Institut, Switzerland



micro & nano - graph Title:

I like your hat, honey

Description:
Defects on gold
Fresnel zone plate after
electroplating and Ar
sputter etching.



Magnification: 50.000 Instrument: ZEISS SUPRA 55VP

Submitted by: Konstantins Jefimovs Affiliation: Laboratory for Micro- and Nanotechnology, Paul

Scherrer Institut, Switzerland