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ΘΑΛΗΣ - *Nanocapillary*

MIS 375233

: 1/1/2012-31/12/2012

μ «NANOCAPILLARY», μ
 (μ)
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 μμ «Nanocapillary» μ μ
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 - μ , μ , μ
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NANOCAPILLARY

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 μ (ultra, micro, meso macro)
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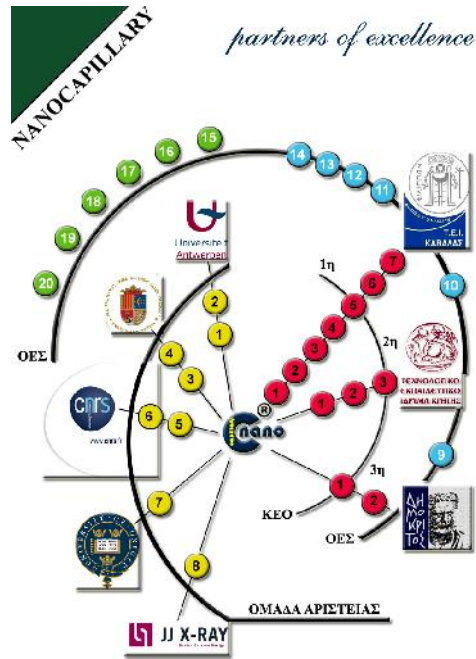


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hardware.

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3. μ

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1. University of Antwerp

μ μ). μ SBA-15 AgBeh
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 μ μ μ μ
 7930 μ SAXS Vycor 7930. Το Vycor
 μ μ μ μ AgBeh
 3600sec. μ Vycor -7930 μ
 0.5m .
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 (μ μ μ μ Vycor
 AgBeh μ μ μ μ
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μ SAXS. μ

μ μ cell μ μ

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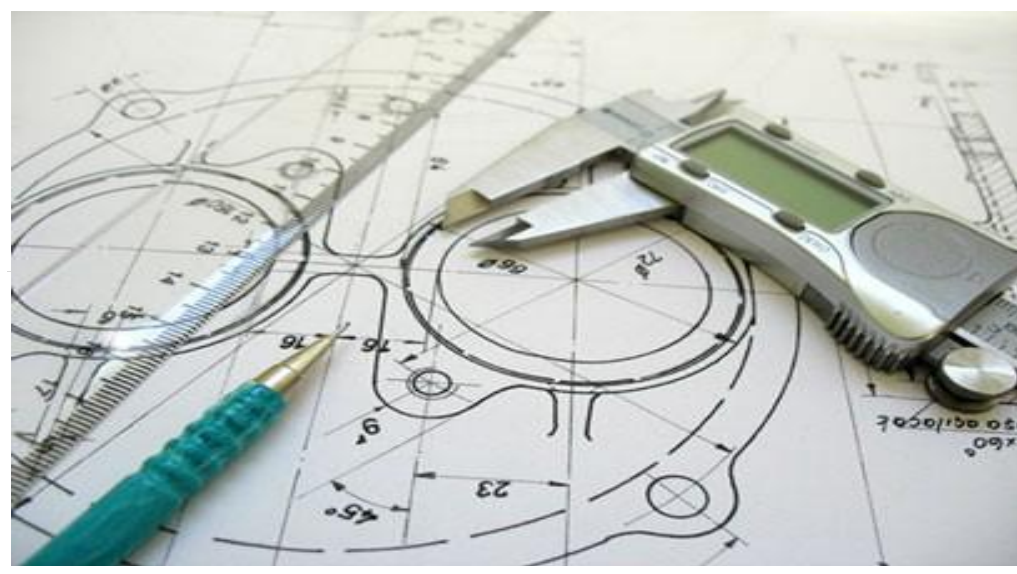
μ Dr. J.W. Nolan μ Nanocapillary.

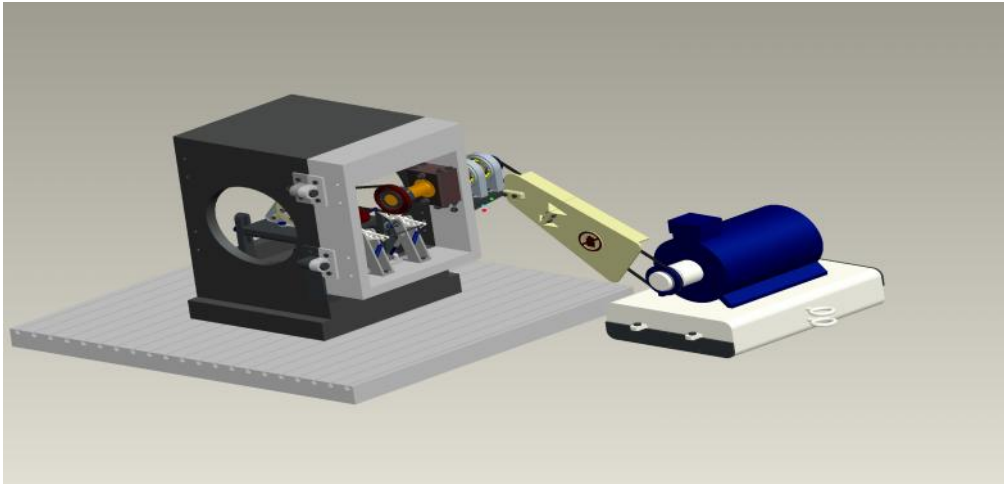
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μ μ AgBeh. μ

μ SASFIT, IGOR, MultiBody, SAXSGUI.

μ μ μ μ





μ μ
 μ in – situ μ
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 μ μ μ in –
 situ μ CH_2Br_2 (μ μ) (*Vycor*[®] 7930).
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 μ μ (Small
 Angle X – Ray Scattering /SAXS). μ
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 μ μ μ μ
 μ μ (SAXSGUI) μ
 μ μ μ μ
 background, μ μ beam stop
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 μ μ μ , μ
 μ μ μ , μ μ
 μ Vycor, SBA MCM μ
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« μ , μ , μ μ , , / μ ».

& . .

μ (in situ) μ –

μ μ μ μ

μ μ , μ μ

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: Eighth International Symposium Effects of Surface Heterogeneity in Adsorption and Catalysis on Solids (ISSHAC-8: <http://isshac.org/posters.pdf>). μ :

1. E. P. Favvas, K. L. Stefanopoulos, S. K. Papageorgiou, J. W. Nolan and A. Ch. Mitropoulos, "In situ small angle x-ray scattering and benzene adsorption on polymer-based carbon hollow fiber membranes", Eighth International Symposium Effects of Surface Heterogeneity in Adsorption and Catalysis on Solids, 27th – 31st August, 2012, Krakow, Poland.
2. E. P. Favvas, K. L. Stefanopoulos, A. Vairis, J. W. Nolan, K. D. Joensen and A. Ch. Mitropoulos, "In situ SAXS investigation of dibromomethane adsorption in ordered mesoporous silica", Eighth International Symposium Effects of Surface Heterogeneity in Adsorption and Catalysis on Solids, 27th – 31st August, 2012, Krakow, Poland.

μ μ in – situ

μ CH_2Br_2 (μ μ) (Vycor[®] 7930).

μ μ μ μ μ μ SAXSGUI

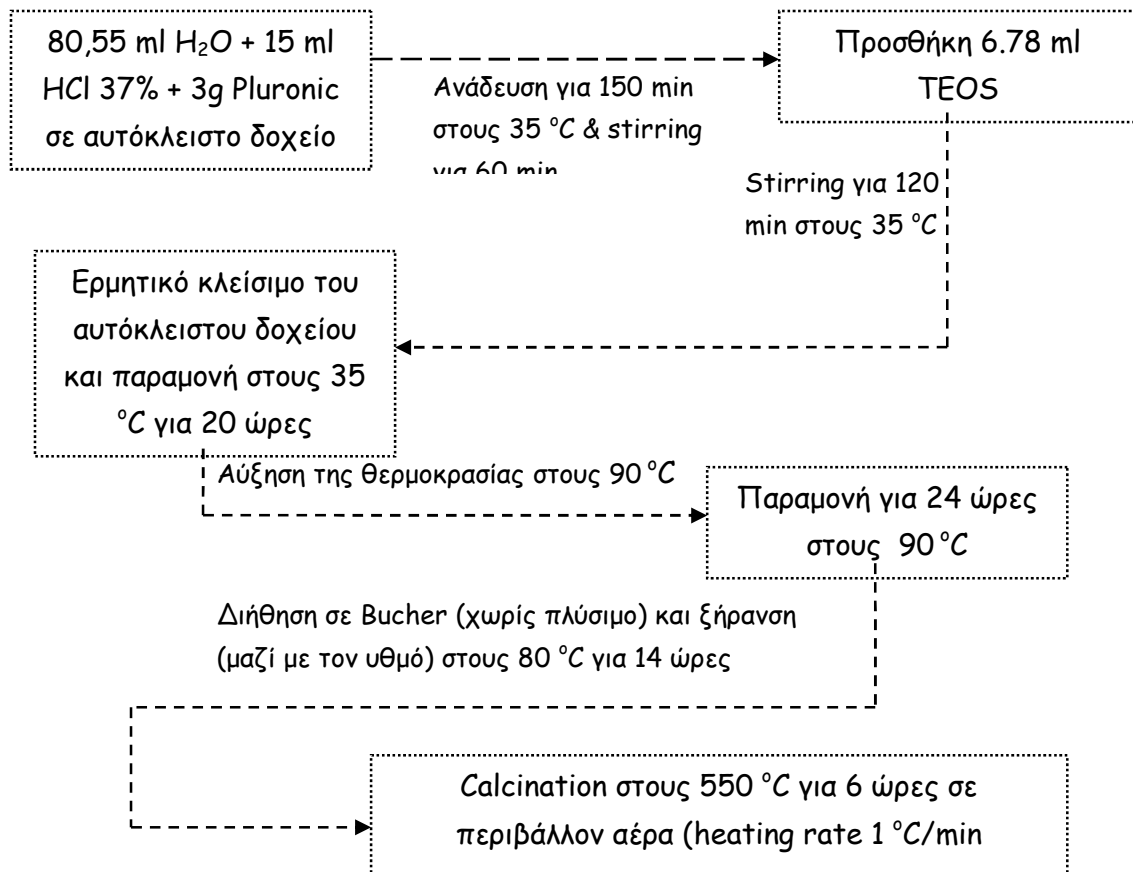
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μ csv. μ
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 μ μ μ Nanocapillary.
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 μ MCF, SBA - 15 MCM.
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 Nanocapillary.

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Dr. J. W. Nolan μ μ μ
 μ SAXS (form factor, structure factor, porod law, guinier,





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 μ Prof. E.F. Vansant Prof. P. Cool (University of
 Antwerp) μ (sintering)
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 μ μ *in situ* μ μ μ
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 CH₂Br₂ – μ (adsorption *in situ* with SAXS)
 μ μ μ (SBA-15) μ

