

IT-14. Scanning probe microscopy and near-field microscopies

8 September, 17:00 - 19:00 / 9 September, 16:30 - 18:30

IT-14-P-1654

Investigating electrical charged samples by scanning probe microscopy: the influence to atomic force microscopy and magnetic force microscopy image artifacts.

Presenting author: **Costa C. A.**

Authors: Costa C. A., Lanzoni E. M., Piazzetta M. H., Galembeck F., Deneke C. F.

IT-14-P-1878

Thermal conductivity reduction measurement on Si and P3HT nanowires : diameter size effect

Presenting author: **Grauby S.**

Authors: Grauby S., Munoz Rojo M., Martin Gonzalez M., Dilahire S.

IT-14-P-1892

Conduction and Dissipation of Electrostatic Charges: Fundamental Study by Scanning Probe Microscopy

Presenting author: **Yin J.**

Authors: YIN J., NYSTEN B.

IT-14-P-2022

A ferrule-top optomechanical probe to collect topographic and near field information about a sample at the nanometer scale

Presenting author: **Van Hoorn C. H.**

Authors: van Hoorn C. H., Chavan D. C., Tiribilli B., Margheri G., Mank A. J., Ariese F., Iannuzzi D.

IT-14-P-2058

High-sensitivity high-resolution elemental 3D analysis by in-situ combination of SIMS and SPM

Presenting author: **Eswara Moorthy S.**

Authors: Fleming Y., Eswara Moorthy S., Wirtz T., Gerard M., Gysin U., Glatzel T., Meyer E., Maier U.

IT-14-P-2107

High-Sensitivity Imaging in Liquid by Torsional Resonance Mode Atomic Force Microscopy utilizing Lorentz Force Actuation

Presenting author: **Yang C. W.**

Authors: Yang C. W., Ding R. F., Lai S. H., Liao H. S., Lai W. C., Huang K. Y., Chang C. S., Hwang I. S.

IT-14-P-2144

Imaging nanostructures of nitrogen/oxygen molecules at HOPG-water interfaces with different atomic force microscopy modes

Presenting author: **Hwang I.**

Authors: Hwang I., Yang C., Lu Y., Fung C., Ko H.

IT-14-P-2422

Instrument induced artifacts in scanning probe microscopy.

Presenting author: **Lanzoni E. M.**

Authors: Lanzoni E. M., Costa C. A., Barboza V. A., Galembeck F., Deneke C. F.

IT-14-P-2536

Surface potential investigation of AlGaAs/GaAs heterostructures by Kelvin Force Microscopy

Presenting author: **Delaye V.**

Authors: Pouch S., Chevalier N., Mariolle D., Triozon F., Niquet Y. M., Melin T., Borowik Ł., Delaye V.

IT-14-P-2566

DESIGN, IMPLEMENTATION AND CHARACTERIZATION OF A 3D-PRINTED AFM HEAD WITH PIEZOTUBE AND ELECTROMAGNETIC ACTUATORS FOR BIOMOLECULAR APPLICATIONS

Presenting author: **Sevim S.**

Authors: Sevim S., Özer S., Feng L., Crawford K., Karaca O., Torun H.

IT-14-P-2717

Integration of SPM module inside FIB-SEM instrument

Presenting author: **Sedláček L.**

Authors: Rudolf M., Sedláček L., Jiruše J.

IT-14-P-2845

In situ characterization of the growth mechanism of PEDOT films with electrochemical atomic force microscopy

Presenting author: **Reggente M.**

Authors: Reggente M., Passeri D., Angeloni L., Rossi M., Tamburri E., Orlanducci S., Terranova M. L.

IT-14-P-2847

Atomic force microscopy techniques for the detection of nanomaterials incorporated in biological systems

Presenting author: **Reggente M.**

Authors: Reggente M., Passeri D., Angeloni L., Scaramuzza F., De Angelis F., Barteri M., Rossi M.

IT-14-P-2848

Bacterial adhesion force measurements by microbial cell probe Atomic Force Microscopy

Presenting author: **Angeloni L.**

Authors: Angeloni L., Passeri D., Reggente M., Pantanella F., Schippa S., Mantovani D., Rossi M.

IT-14-P-2849

Quantitative characterization of magnetic nanoparticles properties by Magnetic Force Microscopy

Presenting author: **Angeloni L.**

Authors: Angeloni L., Passeri D., Reggente M., Marianecchi C., Mantovani D., Rossi M.

IT-14-P-3249

Water meniscus investigated at nanoscale contacts with a heated atomic force microscope (AFM) cantilever probe

Presenting author: **Assy A.**

Authors: Assy A., Lefèvre S., Chapuis P. O., Gomes S.

IT-14-P-3424

Surface Potential Distribution on Quartz Crystal Surfaces by AFM Silica-Probing

Presenting author: **Yelken G. O.**

Authors: Yelken G. O., Polat M.

IT-14-P-5952

Photothermal Excitation for Reliable and Quantitative AFM

Presenting author: **Johann F.**

Authors: Johann F., Labuda A., Walters D., Bocek D., Rutgers M., Cleveland J., Proksch R.