



Wednesday, September 23 | 16:30-17:30 CEST

Join Session:

Link

Session / Topic	Author	Abstracts
Session Topic: Resolving Electrochemical Properties on Functional, Sustainable Materials link		
Scrutinizing the bonding of 2-mercaptobenzimidazole on Cu(111) by STM and DFT	Marion Antonia van Midden	
Challenges in Dopamine Sensing at Carbon-Based Electrodes: Studies of Dopamine Adsorption Properties and Electrode Fouling at Physiological pH	Filip Grajkowski	
Atomic Force Microscopy analysis on the modified separator of the Lithium-Sulfur batteries	Giovanni Saenz-Arce	
Study of vanadium oxide state of vanadium films thermally oxidized	Juan Fernández	
Session Topic: 2D materials and nanoelectronics link		
Structuring and Integration of Molecular Nanomagnets on Sensors and Quantum Devices by Deposition with Atomic Force Microscopy	Maria Carmen Pallarés	
2D talc nanosheets obtained via liquid phase exfoliation	Mariana Prado	
Crystal-Oriented Wrinkles with Origami-Type Junctions in Few-Layer h-BN	Camilla Oliveira	
Anomalous Response of Supported Few-Layer Hexagonal Boron Nitride to DC Electric Fields: A Confined Water Effect?	Camilla Oliveira	
Exfoliated lead sulfide characterization by Scanning Probe Microscopy	Felipe Beato	
Scanning Probe Microscopy in the Control of the Electromechanical Properties	Mauricio Vasconcelos Bessa	
AFM investigation of electropolished copper foils for CVD graphene growth	Eduardo Antônio Silva	
Atomic scale study of strain effects on 2D materials and their electronic properties	Jack Maughan	
Investigating Triboelectric Charging by Kelvin Probe Force Microscopy	Qiwei Hu	
Scanning Tunneling Microscopy and Spectroscopy of Pt-based Transition Metal Dichalcogenides	Kuanysh Zhussupbekov	
A Study of Topography and Magnetic Domain of Galfenol Thin Films	Yu Tang	
Session Topic: Polymer- and Biotechnology link		
Self-assembly of tetracycline molecule by Scanning Probe Microscopy	Alexia Dias	
Nanomechanical properties of nanocelulose by Scanning Probe Microscopy	Renata Maria de Paula	
Study of the interaction of melanin with different acid bleaches by Probe Scanning Microscopy	Thamires Almeida Sanches	
Development and characterization of type I bovine collagen and nanostructured talc nanobio-composites for bone repair	Ana C.F. de Brito	
Heating effect in the calcination process of nano selenite	Thiago R.G. Silva	
Biomechanics of primary hippocampal neurons and SH-SY5Y cells in oxygen and glucose deprivation (OGD) model	Tomasz Zielinski	
AFM as a tool in studies of stroke – changes in elasticity of organotypic hippocampal cultures after OGD	Natalia Bryniarska	
Atmospheric pressure He plasma jet for surface treatment: correlation between plasma optical / electrical parameters and surface properties via AFM and SWCA	Andrei Nastuta	
SPM monitoring of laser surface designing of polyimide films for efficient light management in a solar cell device	Iuliana Stoica	
Session Topic: Overcoming barriers in AFM link		
Gypsum: an environment-friendly, inexpensive and robust height calibration standard at nanometer-scale for atomic force microscopy	Ana Paula Barboza	

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Friday, September 25 | 11:00-12:00 CEST

Join Session:

Link

Session / Topic	Author	Abstracts
Session Topic: Polymer- and Biotechnology link		
Investigation of humidity-induced self-assembly Phe-Phe in solid-state organic film	Semen Vasilev	
Properties of the nanoparticles of different nature studies by atomic force microscopy	Irina Chelnokova	
Ultrasound assisted nanocomposite Chitosan ZnO copper oxide and their application for the improvement of the cooling system	Insaf Ould Brahim	
Nanomechanical properties of blood cell surface after exposure to extremely low frequency electromagnetic field	Maria Starodubtseva	
Liposome-An effective nano carrier	Snehal Kawade	
Enhancement of antimicrobial action of cationic fullerene derivatives in the presence of 4-hexylresorcinol	Hike Nikiyan	
Atomic Force Microscopy of aquatic spun silk	Janusz Strzelecki	
Nanomechanical changes of endothelial cells as a marker of toxicity of silver nanoparticles	Agnieszka Kolodziejczyk	
Cell adhesion heterogeneity in bacterial culture studied by AFM	Dariusz Laskowski	
Effect of post-annealing process on the mechanical and piezoelectric properties of Poly (L-lactic acid) electrospun nanofibers	Cuong Nguyen Thai	
The influence of chemotherapeutics on viscoelastic properties of cancerous and non-malignant bladder cancer cells	Joanna Zemła	
Significance of finite thickness correction for AFM measurements of prostate cancer cells lamellipodia	Andrzej Jan Kubiak	
Mechanical Characterization of Bladder Cancer Cells by means of Atomic Force Microscopy	Kajangi Gnanachandran	
AFM-based local nanomechanical characterization of pulsed UV laser-nanoinduced patterns on azo-polyimide films	Iuliana Stoica	
Session Topic: Advanced research on ferroelectric materials link		
Formation and characterization of self-organized ferroelectric β -glycine films	Daria Vasileva	
At the origin of surface charge effect in piezoresponse force microscopy experiments	Huan Tan	
Session Topic: Overcoming barriers in AFM link		
Multiscale: A Processing Tool for Scanning Probe Microscopy and Other n-Dimensional Datasets	Ralph Bulanadi	
Single-pass magnetic force microscopy technique for rapid survey scans	Antoni Moldovan	
Hurst exponent calculations as a new method to analyze AFM images	Andrea Ehrmann	
Fabrication of a Berkovich tip on an AFM cantilever using a focused ion beam for the nanoelectromechanical characterization of nanomaterials	Zhi Li	
Numerical Model for Adhesion Force Prediction on Contaminant Particles on EUV Reticle	Benny Ku	
Data-driven, dual actuation controller design for a high-speed atomic force microscope	Navid Asmari Saadabad	
A new Approach for Nanowire Diameter Measurement using Atomic Force Microscope	Nikita Chhetri	
What you cut is what you get	Rebecca Savage	
Session Topic: Correlative microscopy techniques for comprehensive material characterization link		
Insights from application of photo-induced force microscopy (PIFM) for investigation of multicore magnetic nanoparticles (MCNPs)	Daniela Täuber	

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