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Microscopy AND Microanalysis

preview of some upcoming articles

Letter to the Editor

The Proliferation of Faulty Materials Data Analysis in the Literature
Smentkowski, Vin

Materials Science Applications

Methods for Calibration of Specimen Temperature during *in situ* Transmission Electron Microscopy Experiments
Simonsen, Søren; Gaulandris, Fabrizio; Wagner, Jakob; Mølhave, Kristian; Muto, Shun; Theil Kuhn, Luise

On Interfacial Microstructure Evolution in an Isothermally Exposed SiC Fiber Reinforced Ti-17 Matrix Composite
Fan, Yingwei; Zhou, Xiaorong

Effect of Heat Treatment Temperature on the Spinning Structure and Properties of a Cu–Sn Alloy
Liu, Jinli

Atom Probe Tomography Characterization of Dopants Distributions in Si Finfet: Challenges and Solutions
Hu, Rong; Xue, Jing; Wu, Xingping; Zhang, Yanbo; Zhu, Huilong; Sha, Gang

Probing Compositional Order in Atomic Columns – STEM Simulations Beyond the Virtual Crystal Approximation
Blom, Douglas; Vogt, Tom

Magnetic Force Microscopy Study of Multiscale Ion-Implanted Platinum in Silica Glass Recorded by an Ultrafast Two-Wave Mixing Configuration
Torres-Torres, David; Bornacelli, Jhovani; Vega-Becerra, Oscar; Garay-Tapia, Andres; Aguirre-Tostado, Francisco; Torres-Torres, Carlos; Oliver, Alicia

Reducing Supervision of Quantitative Image Analysis of Meteorite Samples
Crapster-Pregont, Ellen; Ebel, Denton

An Improved STEM/EDX Quantitative Method for Dopant Profiling at the Nanoscale
Fazzini, Pier Francesco; Makarem, Raghda; Cristiano, Filadelfo; Muller, Dominique

Approaches to Exploring Spatio-Temporal Surface Dynamics in Nanoparticles with *In Situ* Transmission Electron Microscopy
Crozier, Peter; Lawrence, Ethan; Levin, Barnaby; Miller, Benjamin

Correlation of Multiplicity and Chemistry in AlxGa1-xN Heterostructure via Atom Probe Tomography
Mazumder, Baishakhi; Licata, Olivia; Broderick, Scott

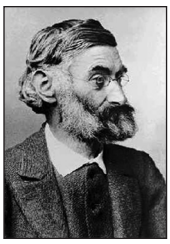
Structural Properties and ELNES of Polycrystalline and Nanoporous Mg_3N_2
Wenzel, Olivia; Rein, Viktor; Popescu, Radian; Feldmann, Claus; Gerthsen, Dagmar

Depth Profile Analysis of Thin Oxide Layers on Polycrystalline FeCr
Ocelík, Václav; Zijlstra, Gerrit; Šamořil, Tomáš; Tesařová, Hana; De Hosson, Jeff

Software and Instrumentation

Combined Focused Ion Beam-Ultramicrotomy Method for TEM Specimen Preparation of Porous Fine-Grained Materials
Ishii, Hope; Ohtaki, Kenta; Bradley, John

A Study of Membrane Impact on Spatial Resolution of Liquid *In-situ* Transmission Electron Microscope
Li, Ming; Knibbe, Ruth



Dear Abbe

Dear Abbe,

I just received a notice from my administration to implement proctoring fees for online exams, which will be revealed to students before they enroll in the course. As part of a growing trend of public universities evolving to be profit centers, *of course* there are proctoring fees! First, we have to endure the endless japes about exam proctorologists, and now we have to tell the students about fees before they enroll? How are we to keep them enrolled if we tell them about fees ahead of time?

Afflicted in Athens

Dear Afflicted,

We must always be subject to the *kyminopristokardamoglyphos* administration (pardon my Greek), but this is indeed a conundrum. Students are vital to our work. And not just as experimental subjects. Students are an important source of research funding (although we don't talk about it), since trading course credits for labor is a long-hallowed tradition. This reminds me of a profitable scheme by my grandfather, Delmer Abbe. Knowing the value of students as a source of labor for microscopy research (the less said about that, the better), and realizing that they pay tuition, he immediately thought *in pecuniae veritas* and decided to start his own college. Since science or engineering students might figure out what he was doing, Delmer started an art school: The Gouache School of Art, which produces "Artisanal Craftspeople Schooled in the Latest Après-modern Pretentionism." He trained students in microscopy, and while they thought they were using high tech to produce ironic Art, they were incidentally paying Delmer tuition for the privilege of doing his research and, as a result, increased his refereed publications. Your administration is merely avoiding having to reveal what they're *really* up to and lawsuits for non-disclosure. You should follow my grandfather's example: disclose the proctoring fees as you must, and use the fees to buy lab supplies.

Looking for ways to increase your nondiscretionary funds? Ask Herr Abbe via johnshields59@gmail.com! For a small fee, he will be happy to help you spend the money.

MT

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