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Microscopy Microanalysis

preview of upcoming articles

Field-Dependent Measurement of GaAs Composition by Atom Probe Tomography Enrico Di Russo, Ivan Blum, Jonathan Houard, Gérald Da Costa, Didier Blavette, and Lorenzo Rigutti

Micron-Scale Deformation: A Coupled In Situ Study of Strain Bursts and Acoustic Emission

Ádám István Hegyi, Péter Dusán Ispánovity, Michal Knapek, Dániel Tüzes, Kristián Máthis, František Chmelík, Zoltán Dankházi, Gábor Varga, and István Groma

Automated Inclusion Microanalysis in Steel by Computer-Based Scanning Electron Microscopy: Accelerating Voltage, Backscattered Electron Image Quality, and Analysis Time

Dai Tang, Mauro E. Ferreira, and Petrus C. Pistorius

Selectively Electron-Transparent Microstamping Toward Concurrent Digital Image Correlation and High-Angular Resolution Electron Backscatter Diffraction (EBSD)

Timothy J. Ruggles, Geoffrey F. Bomarito, Andrew H. Cannon, and Jacob D. Hochhalter

Depth Resolution Dependence on Sample Thickness and Incident Energy in On-Axis Transmission Kikuchi Diffraction in Scanning Electron Microscope (SEM) Etienne Brodu and Emmanuel Bouzy

Bright-Field Microscopy of Transparent Objects: A Ray Tracing Approach Anatoly K. Khitrin, Jonathan C. Petruccelli, and Michael A. Model

Improved Three-Dimensional (3D) Resolution of Electron Tomograms Using Robust Mathematical Data-Processing Techniques

Toby Sanders and Ilke Arslan

Segmentation Approach Towards Phase-Contrast Microscopic Images of Activated Sludge to Monitor the Wastewater Treatment

Muhammad Burhan Khan, Humaira Nisar, Choon Aun Ng, Kim Ho Yeap, and

X-Ray Excited Optical Luminescence and Portable Electron Probe Microanalyzer-Cathodoluminescence (EPMA-CL) Analyzers for On-Line and On-Site Analysis of Nonmetallic Inclusions in Steel

Susumu Imashuku, Koichiro Ono, and Kazuaki Wagatsuma

In Situ High-Resolution Transmission Electron Microscopy (TEM) Observation of Sn Nanoparticles on SnO2 Nanotubes Under Lithiation

Jun Young Cheong, Joon Ha Chang, Sung Joo Kim, Chanhoon Kim, Hyeon Kook Seo, Jae Won Shin, Jong Min Yuk, Jeong Yong Lee, and Il-Doo Kim

A Simple Preparation Method for Full-Range Electron Tomography of Nanoparticles and Fine Powders

Elliot Padgett, Robert Hovden, Jessica C. DaSilva, Barnaby D. A. Levin, John L. Grazul, Tobias Hanrath, and David A. Muller

Cryo-Scanning Electron Microscopy (SEM) and Scanning Transmission Electron Microscopy (STEM)-in-SEM for Bio- and Organo-Mineral Interface Characterization in the Environment

Guillaume Wille, Jennifer Hellal, Patrick Ollivier, Annie Richard, Agnes Burel, Louis Jolly, Marc Crampon, and Caroline Michel

Melatonin Elicits Stimulatory Action on the Adrenal Gland of Soay Ram: Morphometrical, Immunohistochemical, and Ultrastructural Study

Doaa M. Mokhtar, Manal T. Hussein, and Ahmed H. S. Hassan

Nucleation and Growth of Mg-Calcite Spherulites Induced by the Bacterium Curvibacter lanceolatus Strain HJ-1

Chonghong Zhang, Jiejie Lv, Fuchun Li, and Xuelin Li

Use of Confocal Microscopy to Evaluate Equine Zygote Development After Sperm Injection of Oocytes Matured In Vivo or In Vitro

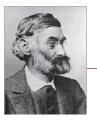
Elena Ruggeri, Keith F. DeLuca, Cesare Galli, Giovanna Lazzari, Jennifer G. DeLuca, Joanne E. Stokes, and Elaine M. Carnevale

MICROGRAPHIA

The Application of Scanning Electron Microscopy with Energy-Dispersive X-Ray Spectroscopy (SEM-EDX) in Ancient Dental Calculus for the Reconstruction of Human

Dana Fialová, Radim Skoupý, Eva Drozdová, Aleš Paták, Jakub Piňos, Lukáš Šín, Radoslav Beňuš, and Bohuslav Klíma





DearAbbe

Dear Abbe.

A recent social interaction has left me perplexed. I was downtown on a cold, drizzly night waiting for a bus home. A well-dressed woman walked toward me, gave me a look, and then... added several extra feet of clearance. As I looked down to see if my zipper was up (it was, this time), I realized I was holding an issue of Microscopy Today to my chest with the "Microscopy" clearly visible (much in the manner of other proselytizers on these very streets). Then an elderly man came shuffling along the sidewalk, shabbily dressed and carrying his possessions in a black garbage bag. As he walked, I saw that he was relying on a cheap aluminum walker for support, scraping it along sidewalk ahead of him. He approached, cocked his head to read the title of my magazine, and then gave me a knowing smile and a nod before shuffling on his way. Did I just then get a glimpse of my university's retirement plan for retired microscopists? Is there a gray cadre of optically discriminated individuals shuffling along our streets ready to peer through any bit of found glass to marvel at the mysteries of nature? Should I buy a good walker, the kind with wheels? Sincerely,

Wet and Walker-less in Seattle

Dear Wet.

Heiliger Strohsack! Are you sure the time-worn street scamp wasn't a Nobel Prize winner who, realizing that he no longer needs to put up a front, now wears comfortable clothes? More likely, what you witnessed was an example of protective coloration. Was the sidewalk shuffler wearing glasses? If so, then he was most likely the super-being known as The Microscopist™. His alter ego in public usually takes the form of The Vagabond. His sly hint of acknowledgement upon seeing your copy of a microscopy journal was just a polite nod to your obvious intellectual perspicacity . . . or a bad case of facial tics from an afternoon of sniffing EPO-TEK®. The Microscopist™ has been viewed either as a superhero or a supervillian, depending on the Administration du Jour. But most likely you are correct—you saw a vision of your retirement. Purchase that walker while you can and stuff the tube with used sputter coater targets. That way your ambulant aid will be a better investment than your retirement portfolio that the politicians have their eyes on.

If you need investment advice, you can do no better (or no worse) than to contact Herr Professor Abbe through his stillemployed assistant at jpshield@uga.edu.

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