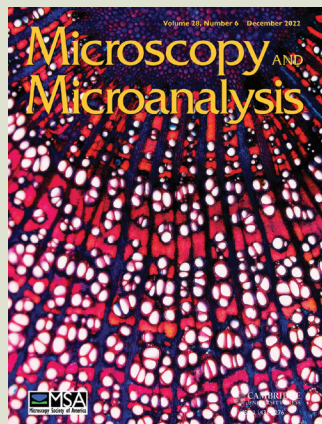


preview of some upcoming articles



Materials Science Applications

Tracking the Mn diffusion in the carbon-supported nanoparticles through the collaborative analysis of atom probe and evaporation simulation: *Choi, Pyuck-Pa et al.*

Comparative studies on local barrier field variations above field-adsorbed helium and neon with a micro-probe hole field ion microscope: *Kobayashi, Ataru and Ohta, Yasushi*

Energy Dispersive X-ray Spectrum Simulation with NIST DTSA-II: Comparing Simulated and Measured Electron-Excited Spectra: *Newbury, Dale and Ritchie, Nicholas*

Measurement and calculation of X-ray production efficiencies for copper, zirconium, and tungsten: *Procop, Mathias and Terborg, Ralf*

Software and Instrumentation

Exploring Blob Detection to Determine Atomic Column Positions and Intensities in Time-Resolved TEM Images with Ultra-low Signal-to-Noise: *Crozier, Peter et al.*

A feasible surface patterning method for SEM-DIC: Achieving high-resolution *in-situ* mapping of local strain and microstructure to reveal the effect of slip transfer on shear strain near grain boundaries: *Cui, Xiping et al.*

Precise Drift Tracking for *in situ* Transmission Electron Microscopy via Thon-ring based Sample Position Measurement: *Liu, Wei et al.*

Towards Augmented Microscopy with Reinforcement Learning-Enhanced Workflows: *LeBeau, James et al.*

Warp Free TEM Sample Preparation Methods Using FIB/SEM Systems: *Cook, Steven*

Towards electron energy loss Compton spectra free from dynamical diffraction artefacts: *Mendis, Budhika and Talmantaite, Alina*

Precisely picking nanoparticles by a 'Nano-scalpel' for 360° Electron Tomography: *Wang, Di et al.*

Biological Applications

Evaluation of the plasticity of novel regulatory cells – telocytes – in the gonad of the male Chinese soft-shelled turtle (*Pelodiscus sinensis*) associated with seasonal reproductive activity: *Yang, Ping et al.*

LPS- and LTA-Induced Expression of TLR4, MyD88 and TNF- α in lymph nodes of the Akkaraman and Romanov lambs: *Arslan, Korhan et al.*

Blastocyst stage affects the isolation and culture of buffalo Naive/Primed embryonic stem-like cells: *Zhao, Xin et al.*

Ultracellular imaging of bronchoalveolar lavage from young age COVID-19 patients with comorbidities showed greater SARS-COV-2 infection but lesser ultrastructural damage than the old age patients: *Yadav, Subhash et al.*

Micrographia

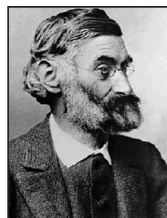
Morphological characterization of the digestive tube of hawksbill sea turtle (*Eretmochelys imbricata*) hatchlings: *Matias de Oliveira, Radan Elvis et al.*

Application of microscopy in the quality control of licorice roots—comparative anatomy of the roots and rhizomes of five species of *Glycyrrhiza*: *Raman, Vijayasankar et al.*

A Study on Ultrastructure of Skeletal Muscle Capillaries of Streptozotocin Diabetic Rats and the Therapeutic Effect of Benfluorex: *Gul, Nursel et al.*

An efficient method of observing diatom frustules via digital holographic microscopy: *Umamura, Kazuo et al.*

Morpho-functional analysis of the head glands in three Auchenorrhyncha species and their possible biological significance: *Romani, Roberto et al.*



Dear Abbe

Dear Abbe,

Recently I overheard one of the professionals over in the EM lab talking about “wobbling.” I am not normally one to judge, but this sounds a bit sketchy. Can you shed some light on the conversation?

Out of Context in Chicago

Dear Schnuffelnase,

It can be quite salacious hearing terminology and phrases in labs that are not our own. I typically offer up spurious phrases, which requires me explaining myself (quite a task sometimes!). I recently told a coworker to be careful or she would “tiddly-wink” the grid. She promptly looked at me askance and inched away from me. I had to quickly describe tiddlywinking to keep from visiting HR *again* about inappropriate comments. An open mind will keep you from taking offense too easily and make more room for fresh, obscure phrases that can be offered up to confound already addled associates. Just don't be so open-minded that your brains spill out.

Need a scapegoat for your troubles? Need some questionable and possibly life-threatening advice to liven up your love life? Herr Abbe is in there like swimwear! Just give him a try at johnshields59@gmail.com.

MT

Expand your Knowledge of Microscopy with

MSA Membership!

Whether your primary focus is in the biological or the physical sciences, MSA takes your knowledge to the next level!

Members Receive:

- A personal subscription to MSA's official journal, *Microscopy and Microanalysis*, and MSA's popular bi-monthly magazine, *Microscopy Today*.
- Peer Networking through the Society's Focused Interest Groups and Local Affiliated Societies.
- MSA Awards Programs, Scholarships, Speaker Opportunities, and much more!

Join MSA Today!

For more information:
visit www.microscopy.org

