Most Read Articles

Microscopy promotes research combined with any type of microscopy techniques, applied to both Biological Science and Physical Science. The most read articles, published between January 2019 and December 2020, are listed below.

BIOLOGICAL SCIENCE

Recent advances in computational methods for measurement of dendritic spines imaged by light microscopy

Shigeo Okabe

Microscopy, Volume 69, Issue 4, August 2020, Pages 196–213, https://doi.org/10.1093/jmicro/dfaa016

Implementing machine learning methods for imaging flow cytometry

Sadao Ota, et al.

Microscopy, Volume 69, Issue 2, April 2020, Pages 61–68, https://doi.org/10.1093/jmicro/dfaa005

Generative and discriminative model-based approaches to microscopic image restoration and segmentation

Shin Ishii, et al.

Microscopy, Volume 69, Issue 2, April 2020, Pages 79–91, https://doi.org/10.1093/jmicro/dfaa007

Peptidoglycan layer and disruption processes in *Bacillus subtilis* cells visualized using quick-freeze, deep-etch electron microscopy

Isil Tulum, et al.

Microscopy, Volume 68, Issue 6, 3 December 2019, Pages 441–449, https://doi.org/10.1093/jmicro/dfz033

Genetically encoded orientation probes for F-actin for fluorescence polarization microscopy

Nori Nakai, et al.

Microscopy, Volume 68, Issue 5, 9 October 2019, Pages 359–368, https://doi.org/10.1093/jmicro/dfz022

Large-scale single-molecule imaging aided by artificial intelligence

Michio Hiroshima, et al.

Microscopy, Volume 69, Issue 2, April 2020, Pages 69–78, https://doi.org/10.1093/jmicro/dfz116

Efficient fluorescence recovery using antifade reagents in correlative light and electron microscopy

Kiminori Toyooka, Naeko Shinozaki-Narikawa

Microscopy, Volume 68, Issue 5, 9 October 2019, Pages 417–421, https://doi.org/10.1093/jmicro/dfz029

Identification of lymphatic endothelium in cranial arachnoid granulation-like dural gap

Osamu Kutomi, Sen Takeda

Microscopy, Volume 69, Issue 6, December 2020, Pages 391–400, https://doi.org/10.1093/jmicro/dfaa038

Impaired actin dynamics and suppression of Shank2-mediated spine enlargement in cortactin knockout mice

Shinji Tanaka, et al.

Microscopy, Volume 69, Issue 1, February 2020, Pages 44–52, https://doi.org/10.1093/jmicro/dfaa001

Inner structure and inclusions in radiocesiumbearing microparticles emitted in the Fukushima Daiichi Nuclear Power Plant accident

Taiga Okumura, et al.

Microscopy, Volume 68, Issue 3, June 2019, Pages 234–242, https://doi.org/10.1093/jmicro/dfz004

PHYSICAL SCIENCE

Electron tomography imaging methods with diffraction contrast for materials research

Satoshi Hata, et al.

Microscopy, Volume 69, Issue 3, June 2020, Pages 141–155, https://doi.org/10.1093/jmicro/dfaa002

Application of machine learning techniques to electron microscopic/spectroscopic image data analysis

Shunsuke Muto, Motoki Shiga

Microscopy, Volume 69, Issue 2, April 2020, Pages 110–122, https://doi.org/10.1093/jmicro/dfz036

Machine learning approaches for ELNES/XANES

Teruyasu Mizoguchi, Shin Kiyohara

Microscopy, Volume 69, Issue 2, April 2020, Pages 92–109, https://doi.org/10.1093/jmicro/dfz109

High spatiotemporal-resolution imaging in the scanning transmission electron microscope

Ryo Ishikawa, et al.

Microscopy, Volume 69, Issue 4, August 2020, Pages 240–247, https://doi.org/10.1093/jmicro/dfaa017

Atomistic and dynamic structural characterizations in low-dimensional materials: recent applications of *in situ* transmission electron microscopy

He Zheng, et al.

Microscopy, Volume 68, Issue 6, 3 December 2019, Pages 423–433, https://doi.org/10.1093/jmicro/dfz038

Magnetic-structure imaging in polycrystalline materials by specimen-tilt series averaged DPC STEM

Yoshiki O Murakami, et al.

Microscopy, Volume 69, Issue 5, October 2020, Pages 312–320, https://doi.org/10.1093/jmicro/dfaa029

Visualization of different carrier concentrations in n-type-GaN semiconductors by phase-shifting electron holography with multiple electron biprisms

Kazuo Yamamoto, et al.

Microscopy, Volume 69, Issue 1, February 2020, Pages 1–10, https://doi.org/10.1093/jmicro/dfz037

Automated acquisition of vast numbers of electron holograms with atomic-scale phase information

Yoshio Takahashi, et al.

Microscopy, Volume 69, Issue 2, April 2020, Pages 132–139, https://doi.org/10.1093/jmicro/dfaa004

Accuracy improvement of phase estimation in electron holography using noise reduction methods

Yoshihiro Midoh, Koji Nakamae

Microscopy, Volume 69, Issue 2, April 2020, Pages 123–131, https://doi.org/10.1093/jmicro/dfz115

Study of the solid electrolyte interphase of Li-O2 battery electrolyte by analytical transmission electron microscopy

Mitsunori Kitta, Hikaru Sano

*Microscopy*6, Volume 69, Issue 4, August 2020, Pages 227–233, https://doi.org/10.1093/jmicro/dfaa012

Connect

f Facebook 🔀 Join our mailing list

🏏 Twitter 🏻 🕠 Blog

YouTube

Useful links

Changes to our list

Dispatch dates

Frequently asked questions

Latest tweets

Oxford Journals Retweeted

Antibody Therapeutics AntibodyTherapeutics

@AntibodyT

Click here <u>academic.oup.com/abt/article/4/...</u> check our latest research paper regarding "Safety and immunogenicity evaluation of inactivated whole-virus-SARS-COV-2 as emerging vaccine development in Egypt" contributed by scientists from Veterinary Serum Vaccine Research Institute Egypt.

Safety and immunogenicity evaluation of inactivated w...

AbstractBackground. Current worldwide pandemic coronav... academic.oup.com

Jul 23, 2021



Oxford Journals

@OxfordJournals

How are maple species in North America affected by ongoing global warming? Find out in @Foresters new Editor's Choice article, which aims to uncover the main drivers of maple distribution to quantify potential changes to maple habitat in northern regions: bit.ly/3Cwoulv