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Nitrogen isotope analysis of NaNO₃ and KNO₃ by nano secondary ion mass spectrometry using the ¹⁵N¹⁶O₂⁻/¹⁴N¹⁶O₂⁻ ratio

Kexue Li, Baerbel Sinha and Peter Hoppe
J. Vac. Sci. Technol. B **34**, 030601 (2016);
<http://dx.doi.org/10.1116/1.4931983>

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Correlation of pressure sensitive adhesive performance to surface chemistry upon air exposure

Michaeleen L. Pacholski, Laura J. Donkus and Jocelyn A. White
J. Vac. Sci. Technol. B **34**, 030602 (2016);
<http://dx.doi.org/10.1116/1.4938487>

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Negative hydrocarbon species C_{2n}H⁻: How useful can they be?

Heng-Yong Nie
J. Vac. Sci. Technol. B **34**, 030603 (2016);
<http://dx.doi.org/10.1116/1.4941725>

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SPECIAL ISSUE ON SIMS

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What can ToF-SIMS do for wood-polymer composite analysis? A first investigation

Jesse R. Stroka and Robyn E. Goacher
J. Vac. Sci. Technol. B **34**, 03H101 (2016);
<http://dx.doi.org/10.1116/1.4939465>

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Secondary ion emission from leucine and isoleucine under argon gas-cluster ion bombardment

Hubert Gnaser, Masakazu Kusakari, Makiko Fujii, Toshio Seki, Takaaki Aoki and Jiro Matsuo

J. Vac. Sci. Technol. B **34**, 03H102 (2016);
<http://dx.doi.org/10.1116/1.4939497>

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SIMS measurement of hydrogen and deuterium detection limits in silicon: Comparison of different SIMS instrumentation

Fred A. Stevie, Chaunzhen Zhou, Marinus Hopstaken, Michael Saccomanno, Zhichun Zhang and Andrew Turansky

J. Vac. Sci. Technol. B **34**, 03H103 (2016);
<http://dx.doi.org/10.1116/1.4940151>

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Characterization of nanometric inclusions via nanoprojectile impacts

Aaron B. Clubb, Michael J. Eller, Stanislav V. Verkhoturov, Emile A. Schweikert, Rachel M. Anderson and Richard M. Crooks

J. Vac. Sci. Technol. B **34**, 03H104 (2016);
<http://dx.doi.org/10.1116/1.4940152>

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Physical basis of energy per cluster atom in the universal concept of sputtering

Robert J. Paruch, Zbigniew Postawa and Barbara J. Garrison
J. Vac. Sci. Technol. B **34**, 03H105 (2016);
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Image segmentation for uranium isotopic analysis by SIMS: Combined adaptive thresholding and marker controlled watershed approach

David Willingham, Benjamin E. Naes, Patrick G. Heasler, Mindy M.

Zimmer, Christopher A. Barrett and R. Shane Addleman

J. Vac. Sci. Technol. B **34**, 03H106 (2016);

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Method for quantification of insecticide in mosquito netting using ion implantation and ToF-SIMS analysis

Chuanzhen Zhou, Fred A. Stevie and Stephen C. Smith

J. Vac. Sci. Technol. B **34**, 03H107 (2016);

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High-mass heterogeneous cluster formation by ion bombardment of the ternary alloy $\text{Au}_7\text{Cu}_5\text{Al}_4$

Alexander V. Zinovev, Bruce V. King, Igor V. Veryovkin and Michael J. Pellin

J. Vac. Sci. Technol. B **34**, 03H108 (2016);

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Atomic level analysis of dipeptide biomolecules by a scanning atom probe

Masahiro Taniguchi and Osamu Nishikawa

J. Vac. Sci. Technol. B **34**, 03H109 (2016);

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SIMS characterization of surface-modified nanostructured titania electrodes for solar energy conversion devices

Stefania Vitale, Gabriella Zappalà, Nunzio Tuccitto, Alberto Torrisi, Enrico Napolitani and Antonino Licciardello
J. Vac. Sci. Technol. B **34**, 03H110 (2016);
<http://dx.doi.org/10.1116/1.4941428>

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Development of ambient SIMS using mega-electron-volt-energy ion probe

Masakazu Kusakari, Makiko Fujii, Toshio Seki, Takaaki Aoki and Jiro Matsuo
J. Vac. Sci. Technol. B **34**, 03H111 (2016);
<http://dx.doi.org/10.1116/1.4941724>

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Design and implementation of a custom built variable temperature stage for a secondary ion mass spectrometer

Andrew Giordani, Jay Tuggle and Jerry L. Hunter Jr.
J. Vac. Sci. Technol. B **34**, 03H112 (2016);
<http://dx.doi.org/10.1116/1.4941785>

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Time-of-flight secondary ion mass spectrometry as a tool for evaluating the plasma-induced hydrogenation of graphene

Joshua S. Wallace, Austin Quinn, Joseph A. Gardella Jr., Jing Hu, Eric Siu-Wai Kong and Han-Ik Joh
J. Vac. Sci. Technol. B **34**, 03H113 (2016);
<http://dx.doi.org/10.1116/1.4942086>

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Computer modeling of angular emission from Ag(100) and Mo(100) surfaces due to Ar_n cluster bombardment

Dawid Maciazek, Michał Kąski, Łukasz Gąza, Barbara J. Garrison and Zbigniew Postawa

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Uranium ion yields from monodisperse uranium oxide particles

Nicholas Sharp, John D. Fassett and David S. Simons

J. Vac. Sci. Technol. B **34**, 03H115 (2016);

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Secondary ions produced by electrospray droplet impact with *m/z* selection from 10³ to 10⁶

Satoshi Ninomiya, Lee Chuin Chen, Yuji Sakai and Kenzo Hiraoka

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Characterization of individual free-standing nano-objects by cluster SIMS in transmission

Sheng Geng, Stanislav V. Verkhoturov, Michael J. Eller, Aaron B. Clubb and Emile A. Schweikert

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<http://dx.doi.org/10.1116/1.4943027>

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Differentiation of crystalline and amorphous phases in photothermorefractive glass by secondary ion mass spectrometry

Mikhail Klimov, Leonid Glebov and Larissa Glebova

J. Vac. Sci. Technol. B **34**, 03H118 (2016);

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XPS depth profiling of organic photodetectors with the gas cluster ion beam

Jakub Haberko, Mateusz M. Marzec, Andrzej Bernasik, Wojciech Łužny, Pierre Lienhard, Alexandre Pereira, Jérôme Faure-Vincent, David Djurado and Amélie Revaux

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