



## Contents

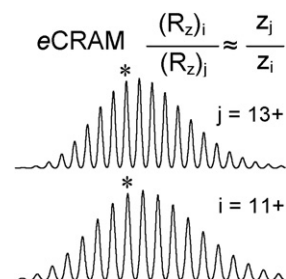
### Regular articles

#### 1–8

#### eCRAM computer algorithm for implementation of the charge ratio analysis method to deconvolute electrospray ionization mass spectra

Simin D. Maleknia, David C. Green

Algorithm for deconvolution of electrospray mass spectra based solely on the ratios of  $m/z$  values of multiply charged ions and to correlate isotopic peaks that share the same isotopic compositions.

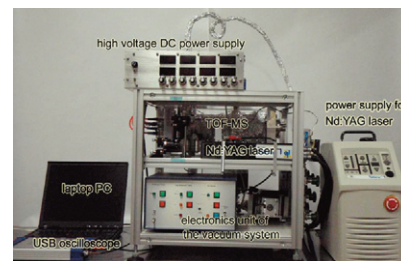


#### 9–13

#### Development of a compact laser-based single photon ionization time-of-flight mass spectrometer

Kenichi Tonokura, Nozomu Kanno, Yukio Yamamoto, Hiroyuki Yamada

We have developed a compact, laser-based, single photon ionization time-of-flight mass spectrometer for on-line monitoring of trace organic species.

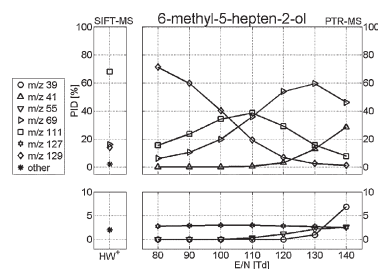


#### 14–21

#### Laboratory studies in support of the detection of biogenic unsaturated alcohols by proton transfer reaction-mass spectrometry

M. Demarcke, C. Amelynck, N. Schoon, F. Dhooghe, J. Rimetz-Planchon, H. Van Langenhove, J. Dewulf

PTR-MS product ion distributions of biogenic unsaturated alcohols have been determined as a function of instrumental ( $E/N$ ) and environmental (relative humidity) parameters.

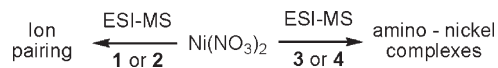


## 22–31

### Coordination chemistry of nickel(II) nitrate with superbasic guanidines as studied by electrospray mass spectrometry

Zoran Glasovac, Vjekoslav Štrukil, Mirjana Eckert-Maksić,  
Detlef Schröder, Maria Schlangen, Helmut Schwarz

The coordination chemistry of nickel(II) nitrate with four guanidines (**1–4**) bearing heteroatomcontaining alkyl sidechains is investigated by means of electrospray ionization mass spectrometry.

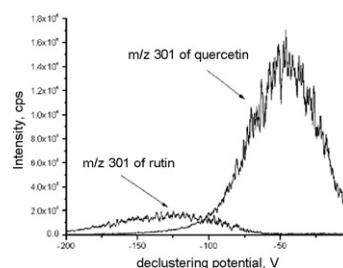


## 32–38

### Three-step HPLC–ESI-MS/MS procedure for screening and identifying non-target flavonoid derivatives

Gábor Rak, Péter Fodor, László Abrankó

Comprehensive flavonoid profiling method that is capable to distinguish between co-eluting compounds having different glycan moieties but are derivatives of the same aglycone.

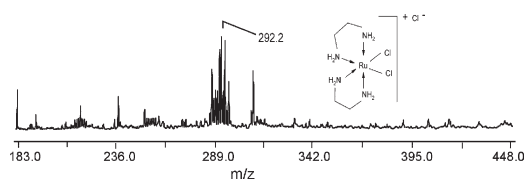


## 39–46

### Flavonoids as matrices for MALDI-TOF mass spectrometric analysis of transition metal complexes

Marijana Petković, Biljana Petrović, Jasmina Savić, Živadin D. Bugarčić,  
Jasmina Dimitrić-Marković, Tatjana Momić, Vesna Vasić

In this work we investigate the suitability of flavonoids to be used as matrices for MALDI-TOF mass spectrometric analysis of Pt(II), Pt(IV), Pd(II) and Ru(III) complexes.

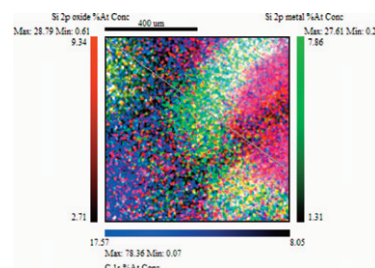


## 47–59

### Surface-assisted laser desorption/ionization mass spectrometry on nanostructured silicon substrates prepared by iodine-assisted etching

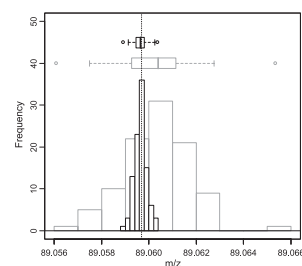
K.P. Law

This work evaluated the physicochemical properties of nanostructured SALDI substrates prepared by iodine-assisted etching and determined the factors that govern the SALDI activity.



**Short communication****60–63****Improved mass accuracy in PTR-TOF-MS: Another step towards better compound identification in PTR-MS**Luca Cappellin, Franco Biasioli, Alessandra Fabris,  
Erna Christos Soukoulis, Tilmann D. Märk, Flavia Gasperi

We show that internal calibration of PTR-TOF-MS spectra based on an improved algorithm allows for a mass accuracy that suffices for elemental determination in practical situations.



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