

Subject index Volume 239

- Activation energy**
Investigation of fundamental physical properties of a polydimethylsiloxane (PDMS) membrane using a proton transfer reaction mass spectrometer (PTRMS), 179
- Anaerobiosis**
Trace gas detection from fermentation processes in apples; an inter-comparison study between proton-transfer-reaction mass spectrometry and laser photoacoustics, 193
- APCI**
Headspace analysis of volatile organic compounds from ethanolic systems by direct APCI-MS, 17
- API**
Headspace analysis of volatile organic compounds from ethanolic systems by direct APCI-MS, 17
- Apples**
Trace gas detection from fermentation processes in apples; an inter-comparison study between proton-transfer-reaction mass spectrometry and laser photoacoustics, 193
- Aroma release**
Influence of mastication rate on dynamic flavour release analysed by combined model mouth/proton transfer reaction–mass spectrometry, 187
- Atmospheric oxidation**
Proton transfer mass spectrometry studies of peroxy radicals, 147
- Atmospheric variability**
Atmospheric variability of biogenic VOCs in the surface layer measured by proton-transfer-reaction mass spectrometry, 77
- Axillary odour**
Proton-transfer-reaction mass spectrometry (PTR-MS) of carboxylic acids. Determination of Henry's law constants and axillary odour investigations, 243
- Bacterial infection**
The proton transfer reaction mass spectrometer and its use in medical science: applications to drug assays and the monitoring of bacteria, 235
- Benzene**
Double ionization and dissociation of benzene-d6 induced by collision with H^+ and Ar^{8+} , 27
- BEWA2000**
Disjunct eddy covariance measurements of monoterpene fluxes from a Norway spruce forest using PTR-MS, 111
- Biofilter**
PTR-MS monitoring of odour emissions from composting plants, 103
- Biogenic VOCs**
Atmospheric variability of biogenic VOCs in the surface layer measured by proton-transfer-reaction mass spectrometry, 77
- Biosphere–atmosphere exchange**
Application of PTR-MS for measurements of biogenic VOC in a deciduous forest, 87
- Breath analysis**
The proton transfer reaction mass spectrometer and its use in medical science: applications to drug assays and the monitoring of bacteria, 235
- Breath test**
Applications of breath gas analysis in medicine, 227
- Carboxylic acids**
Proton-transfer-reaction mass spectrometry (PTR-MS) of carboxylic acids. Determination of Henry's law constants and axillary odour investigations, 243
- Charge transfer**
A selected ion flow tube study of the reactions of H_3O^+ , NO^+ and O_2^+ with some monoterpene oxidation products, 7
A selected ion flow tube study of the reactions of H_3O^+ , NO^+ and O_2^{+*} with some phenols, phenyl alcohols and cyclic carbonyl compounds in support of SIFT-MS and PTR-MS, 139
- Chemical ionisation**
Proton-transfer-reaction mass spectrometry (PTR-MS) of carboxylic acids. Determination of Henry's law constants and axillary odour investigations, 243
- Coincidence**
Double ionization and dissociation of benzene-d6 induced by collision with H^+ and Ar^{8+} , 27
- Compost**
PTR-MS monitoring of odour emissions from composting plants, 103
- Deciduous forest**
Application of PTR-MS for measurements of biogenic VOC in a deciduous forest, 87
- Diffusion and partition coefficients**
Investigation of fundamental physical properties of a polydimethylsiloxane (PDMS) membrane using a proton transfer reaction mass spectrometer (PTRMS), 179
- Disjunct eddy covariance**
Disjunct eddy covariance measurements of monoterpene fluxes from a Norway spruce forest using PTR-MS, 111
- Dissociation**
Double ionization and dissociation of benzene-d6 induced by collision with H^+ and Ar^{8+} , 27
- Double ionization**
Double ionization and dissociation of benzene-d6 induced by collision with H^+ and Ar^{8+} , 27
- Earth's atmosphere**
Inter-comparison between airborne measurements of methanol, acetonitrile and acetone using two differently configured PTR-MS instruments, 129
- Electrostatic focusing ion guide**
An electrostatic focusing ion guide for ion mobility-mass spectrometry, 43
- Emissions**
The effect of ozone treatment on the microbial contamination of pork meat measured by detecting the emissions using PTR-MS and by enumeration of microorganisms, 209
- Energetics**
The study of protein–ligand interactions by mass spectrometry—a personal view, 33
- Ethanol**
Headspace analysis of volatile organic compounds from ethanolic systems by direct APCI-MS, 17

- Flavour
Influence of mastication rate on dynamic flavour release analysed by combined model mouth/proton transfer reaction–mass spectrometry, 187
- Flux measurements
Disjunct eddy covariance measurements of monoterpene fluxes from a Norway spruce forest using PTR-MS, 111
- Fragmentation
Effect of water vapour pressure on monoterpene measurements using proton transfer reaction-mass spectrometry (PTR-MS), 161
- HCHO comparison
Performance characteristics of a proton-transfer-reaction mass spectrometer (PTR-MS) derived from laboratory and field measurements, 117
- Headspace
Quality control of a herb extract using PTR-MS, 203
- Henry's law constants
Proton-transfer-reaction mass spectrometry (PTR-MS) of carboxylic acids. Determination of Henry's law constants and axillary odour investigations, 243
- Herb extract
Quality control of a herb extract using PTR-MS, 203
- Homogeneous surface emissions
Atmospheric variability of biogenic VOCs in the surface layer measured by proton-transfer-reaction mass spectrometry, 77
- Humidity dependence
Performance characteristics of a proton-transfer-reaction mass spectrometer (PTR-MS) derived from laboratory and field measurements, 117
- Hydride ion transfer
A selected ion flow tube study of the reactions of H_3O^+ , NO^+ and O_2^+ with some monoterpene oxidation products, 7
- International reference rock standards
Low-blank isotope ratio measurement of small samples of lithium using multiple-collector ICPMS, 67
- Ion imaging
Distortion of ion trajectories in a time-of-flight mass spectrometer: simulations and experiments with a position sensitive detector, 1
- Ion mobility spectrometry
An electrostatic focusing ion guide for ion mobility-mass spectrometry, 43
- Ion-exchange chromatography
Low-blank isotope ratio measurement of small samples of lithium using multiple-collector ICPMS, 67
- Ionization
Headspace analysis of volatile organic compounds from ethanolic systems by direct APCI-MS, 17
- Ion–molecule reaction
A selected ion flow tube study of the reactions of H_3O^+ , NO^+ and O_2^+ with some monoterpene oxidation products, 7
Proton transfer mass spectrometry studies of peroxy radicals, 147
- Isobaric interference
Investigations on atomic and oxide ion formation of plutonium and uranium in thermal ionization mass spectrometry (TIMS) for determination of ^{238}Pu , 51
- Lithium isotopes
Low-blank isotope ratio measurement of small samples of lithium using multiple-collector ICPMS, 67
- Mass spectrometry
Distortion of ion trajectories in a time-of-flight mass spectrometer: simulations and experiments with a position sensitive detector, 1
The study of protein–ligand interactions by mass spectrometry—a personal view, 33
An electrostatic focusing ion guide for ion mobility-mass spectrometry, 43
- Matrix effects
Low-blank isotope ratio measurement of small samples of lithium using multiple-collector ICPMS, 67
- Meat
The effect of ozone treatment on the microbial contamination of pork meat measured by detecting the emissions using PTR-MS and by enumeration of microorganisms, 209
- Medicine
Medical applications of proton transfer reaction-mass spectrometry: ambient air monitoring and breath analysis, 221
- Membrane introduction mass spectrometry
Investigation of fundamental physical properties of a polydimethylsiloxane (PDMS) membrane using a proton transfer reaction mass spectrometer (PTRMS), 179
- Membrane-introduction-proton-transfer-mass-spectrometry
Investigation of fundamental physical properties of a polydimethylsiloxane (PDMS) membrane using a proton transfer reaction mass spectrometer (PTRMS), 179
- Microbial spoilage
The effect of ozone treatment on the microbial contamination of pork meat measured by detecting the emissions using PTR-MS and by enumeration of microorganisms, 209
- MI-PTRMS
Membrane inlet proton transfer reaction mass spectrometry (MI-PTRMS) for direct measurements of VOCs in water, 171
- Monitoring of drug
The proton transfer reaction mass spectrometer and its use in medical science: applications to drug assays and the monitoring of bacteria, 235
- Monoterpene measurements
Effect of water vapour pressure on monoterpene measurements using proton transfer reaction-mass spectrometry (PTR-MS), 161
- Monoterpenes
A selected ion flow tube study of the reactions of H_3O^+ , NO^+ and O_2^+ with some monoterpene oxidation products, 7
Disjunct eddy covariance measurements of monoterpene fluxes from a Norway spruce forest using PTR-MS, 111
- Multiple-collector ICPMS
Low-blank isotope ratio measurement of small samples of lithium using multiple-collector ICPMS, 67
- Multivariate calibration
PTR-MS monitoring of odour emissions from composting plants, 103
- Nitromethane
A selected ion flow tube, SIFT, study of the ion chemistry of H_3O^+ , NO^+ and O_2^+ ions with several nitroalkanes in the presence of water vapour, 57
- Nitropropane
A selected ion flow tube, SIFT, study of the ion chemistry of H_3O^+ , NO^+ and O_2^+ ions with several nitroalkanes in the presence of water vapour, 57
- Olfactometry
PTR-MS monitoring of odour emissions from composting plants, 103
- Ozone
The effect of ozone treatment on the microbial contamination of pork meat measured by detecting the emissions using PTR-MS and by enumeration of microorganisms, 209
- PCA
Characterization of wine with PTR-MS, 215
- Permeability
Investigation of fundamental physical properties of a polydimethylsiloxane (PDMS) membrane using a proton transfer reaction mass spectrometer (PTRMS), 179
- Peroxy radicals
Proton transfer mass spectrometry studies of peroxy radicals, 147

- Phenols
A selected ion flow tube study of the reactions of H_3O^+ , NO^+ and $\text{O}_2^{+\bullet}$ with some phenols, phenyl alcohols and cyclic carbonyl compounds in support of SIFT-MS and PTR-MS, 139
- Phenyl alcohols
A selected ion flow tube study of the reactions of H_3O^+ , NO^+ and $\text{O}_2^{+\bullet}$ with some phenols, phenyl alcohols and cyclic carbonyl compounds in support of SIFT-MS and PTR-MS, 139
- Photoacoustic trace gas detector
Trace gas detection from fermentation processes in apples; an inter-comparison study between proton-transfer-reaction mass spectrometry and laser photoacoustics, 193
- Pork
The effect of ozone treatment on the microbial contamination of pork meat measured by detecting the emissions using PTR-MS and by enumeration of microorganisms, 209
- Position-sensitive
Double ionization and dissociation of benzene-d6 induced by collision with H^+ and Ar^{8+} , 27
- Post-anaerobiosis
Trace gas detection from fermentation processes in apples; an inter-comparison study between proton-transfer-reaction mass spectrometry and laser photoacoustics, 193
- Protein–ligand interactions
The study of protein–ligand interactions by mass spectrometry—a personal view, 33
- Proton transfer
A selected ion flow tube study of the reactions of H_3O^+ , NO^+ and O_2^+ with some monoterpene oxidation products, 7
A selected ion flow tube study of the reactions of H_3O^+ , NO^+ and $\text{O}_2^{+\bullet}$ with some phenols, phenyl alcohols and cyclic carbonyl compounds in support of SIFT-MS and PTR-MS, 139
- Proton-transfer mass spectrometry
Proton transfer mass spectrometry studies of peroxy radicals, 147
- Proton-transfer-reaction mass spectrometer
Trace gas detection from fermentation processes in apples; an inter-comparison study between proton-transfer-reaction mass spectrometry and laser photoacoustics, 193
- Proton-transfer-reaction mass spectrometry
Atmospheric variability of biogenic VOCs in the surface layer measured by proton-transfer-reaction mass spectrometry, 77
Application of PTR-MS for measurements of biogenic VOC in a deciduous forest, 87
Performance characteristics of a proton-transfer-reaction mass spectrometer (PTR-MS) derived from laboratory and field measurements, 117
Inter-comparison between airborne measurements of methanol, acetonitrile and acetone using two differently configured PTR-MS instruments, 129
PTR-MS monitoring of odour emissions from composting plants, 103
Medical applications of proton transfer reaction-mass spectrometry: ambient air monitoring and breath analysis, 221
Applications of breath gas analysis in medicine, 227
- PTR-MS
Application of PTR-MS for measurements of biogenic VOC in a deciduous forest, 87
Disjunct eddy covariance measurements of monoterpene fluxes from a Norway spruce forest using PTR-MS, 111
A selected ion flow tube study of the reactions of H_3O^+ , NO^+ and $\text{O}_2^{+\bullet}$ with some phenols, phenyl alcohols and cyclic carbonyl compounds in support of SIFT-MS and PTR-MS, 139
Effect of water vapour pressure on monoterpene measurements using proton transfer reaction-mass spectrometry (PTR-MS), 161
Influence of mastication rate on dynamic flavour release analysed by combined model mouth/proton transfer reaction–mass spectrometry, 187
The effect of ozone treatment on the microbial contamination of pork meat measured by detecting the emissions using PTR-MS and by enumeration of microorganisms, 209
- Characterization of wine with PTR-MS, 215
Medical applications of proton transfer reaction-mass spectrometry: ambient air monitoring and breath analysis, 221
The proton transfer reaction mass spectrometer and its use in medical science: applications to drug assays and the monitoring of bacteria, 235
Proton-transfer-reaction mass spectrometry (PTR-MS) of carboxylic acids. Determination of Henry's law constants and axillary odour investigations, 243
- PTR-MS mass spectrometry
Quality control of a herb extract using PTR-MS, 203
- Pu-238/Pu-239 atom ratio
Investigations on atomic and oxide ion formation of plutonium and uranium in thermal ionization mass spectrometry (TIMS) for determination of 238Pu, 51
- Pu/U ratio
Investigations on atomic and oxide ion formation of plutonium and uranium in thermal ionization mass spectrometry (TIMS) for determination of 238Pu, 51
- Quality control
Quality control of a herb extract using PTR-MS, 203
- Quantitative analysis
Membrane inlet proton transfer reaction mass spectrometry (MI-PTRMS) for direct measurements of VOCs in water, 171
- Risk environment
Medical applications of proton transfer reaction-mass spectrometry: ambient air monitoring and breath analysis, 221
- Shelf-life
The effect of ozone treatment on the microbial contamination of pork meat measured by detecting the emissions using PTR-MS and by enumeration of microorganisms, 209
- SIFT
A selected ion flow tube study of the reactions of H_3O^+ , NO^+ and O_2^+ with some monoterpene oxidation products, 7
A selected ion flow tube, SIFT, study of the ion chemistry of H_3O^+ , NO^+ and O_2^+ ions with several nitroalkanes in the presence of water vapour, 57
- SIFT–MS
A selected ion flow tube, SIFT, study of the ion chemistry of H_3O^+ , NO^+ and O_2^+ ions with several nitroalkanes in the presence of water vapour, 57
A selected ion flow tube study of the reactions of H_3O^+ , NO^+ and $\text{O}_2^{+\bullet}$ with some phenols, phenyl alcohols and cyclic carbonyl compounds in support of SIFT-MS and PTR-MS, 139
- Sleep
Applications of breath gas analysis in medicine, 227
- Structure
The study of protein–ligand interactions by mass spectrometry—a personal view, 33
- Sunflower oil
Influence of mastication rate on dynamic flavour release analysed by combined model mouth/proton transfer reaction–mass spectrometry, 187
- Thermal ionization mass spectrometry
Investigations on atomic and oxide ion formation of plutonium and uranium in thermal ionization mass spectrometry (TIMS) for determination of 238Pu, 51
- Time-of-flight
Distortion of ion trajectories in a time-of-flight mass spectrometer: simulations and experiments with a position sensitive detector, 1

VOCs

Membrane inlet proton transfer reaction mass spectrometry (MI-PTRMS) for direct measurements of VOCs in water, 171

The proton transfer reaction mass spectrometer and its use in medical science: applications to drug assays and the monitoring of bacteria, 235

Volatile organic compounds

Application of PTR-MS for measurements of biogenic VOC in a deciduous forest, 87

Performance characteristics of a proton-transfer-reaction mass spectrometer (PTR-MS) derived from laboratory and field measurements, 117

Inter-comparison between airborne measurements of methanol, acetonitrile and acetone using two differently configured PTR-MS instruments, 129

Effect of water vapour pressure on monoterpene measurements using proton transfer reaction-mass spectrometry (PTR-MS), 161

Quality control of a herb extract using PTR-MS, 203

Applications of breath gas analysis in medicine, 227

Volatile profile

Characterization of wine with PTR-MS, 215

Volatiles

Headspace analysis of volatile organic compounds from ethanolic systems by direct APCI-MS, 17

The effect of ozone treatment on the microbial contamination of pork meat measured by detecting the emissions using PTR-MS and by enumeration of microorganisms, 209

Water

Membrane inlet proton transfer reaction mass spectrometry (MI-PTRMS) for direct measurements of VOCs in water, 171

Water vapour

Effect of water vapour pressure on monoterpene measurements using proton transfer reaction-mass spectrometry (PTR-MS), 161

Wine

Characterization of wine with PTR-MS, 215