

Frans J M Harren

List of Publications by Year in descending order

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250
papers

9,343
citations

30047

54
h-index

56687

83
g-index

261
all docs

261
docs citations

261
times ranked

8781
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-Invasive Monitoring of Inflammation in Inflammatory Bowel Disease Patients during Prolonged Exercise via Exhaled Breath Volatile Organic Compounds. <i>Metabolites</i> , 2022, 12, 224.	1.3	8
2	Exhaled Breath Reflects Prolonged Exercise and Statin Use during a Field Campaign. <i>Metabolites</i> , 2021, 11, 192.	1.3	8
3	Fourier transform and grating-based spectroscopy with a mid-infrared supercontinuum source for trace gas detection in fruit quality monitoring. <i>Optics Express</i> , 2021, 29, 12381.	1.7	13
4	Ultra-broadband infrared gas sensor for pollution detection: the TRIAGE project. <i>JPhys Photonics</i> , 2021, 3, 031003.	2.2	8
5	The peppermint breath test benchmark for PTR-MS and SIFT-MS. <i>Journal of Breath Research</i> , 2021, 15, 046005.	1.5	15
6	Broadband Time-Resolved Absorption and Dispersion Spectroscopy of Methane and Ethane in a Plasma Using a Mid-Infrared Dual-Comb Spectrometer. <i>Sensors</i> , 2020, 20, 6831.	2.1	12
7	Cell death associated release of volatile organic sulphur compounds with antioxidant properties in chemical-challenged tobacco BY-2 suspension cultured cells. <i>Journal of Plant Physiology</i> , 2020, 251, 153223.	1.6	7
8	Sensitive multi-species trace gas sensor based on a high repetition rate mid-infrared supercontinuum source. <i>Optics Express</i> , 2020, 28, 26091.	1.7	24
9	Time-Resolved Mid-Infrared Dual-Comb Spectroscopy of Methane in an Electrical Discharge. , 2020, , .		0
10	Collision-induced absorption between O_2 and CO_2 for the a_1^1 ($v=1$) \rightarrow X_3^1 ($v=0$) transition of molecular oxygen at 1060 nm. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 1805-1811.	1.3	3
11	A Broadband Mid-Infrared Trace Gas Sensor Using Supercontinuum Light Source: Applications for Real-Time Quality Control for Fruit Storage. <i>Sensors</i> , 2019, 19, 2334.	2.1	27
12	Nitrite and nitric oxide are important in the adjustment of primary metabolism during the hypersensitive response in tobacco. <i>Journal of Experimental Botany</i> , 2019, 70, 4571-4582.	2.4	10
13	Broadband Multi-Species Trace Gas Detection by Up-Converting Mid-Infrared Supercontinuum Light into the Near-Infrared. , 2019, , .		0
14	Mid-Infrared Multi-Species Trace Gas Sensing using a Supercontinuum Light Source. , 2019, , .		0
15	Time-resolved mid-infrared dual-comb spectroscopy. <i>Scientific Reports</i> , 2019, 9, 17247.	1.6	42
16	Accurate measurements of line strengths and air-broadening coefficients in methane around $1.66\ \mu\text{m}$ using cavity ring down spectroscopy. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 224, 9-17.	1.1	6
17	Mid-infrared supercontinuum-based upconversion detection for trace gas sensing. <i>Optics Express</i> , 2019, 27, 24469.	1.7	48
18	Experimental-based comparison between off-axis integrated cavity output spectroscopy and multipass-assisted wavelength modulation spectroscopy at $77\ \mu\text{m}$. <i>OSA Continuum</i> , 2019, 2, 2667.	1.8	3

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19	Line strength measurements and relative isotopic ratio $^{13}\text{C}/^{12}\text{C}$ measurements in carbon dioxide using cavity ring down spectroscopy. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 204, 152-158.	1.1	7
20	Laser spectroscopy for breath analysis: towards clinical implementation. <i>Applied Physics B: Lasers and Optics</i> , 2018, 124, 161.	1.1	124
21	Sensitive Spectroscopy of Acetone Using a Widely Tunable External-Cavity Quantum Cascade Laser. <i>Sensors</i> , 2018, 18, 2050.	2.1	25
22	Quantum Cascade Lasers-Based Detection of Nitric Oxide. <i>Methods in Molecular Biology</i> , 2018, 1747, 49-57.	0.4	2
23	Comprehensive three-dimensional ray tracing model for three-mirror cavity-enhanced spectroscopy. <i>Applied Optics</i> , 2018, 57, 154.	0.9	11
24	Intensity enhancement in off-axis integrated cavity output spectroscopy. <i>Applied Optics</i> , 2018, 57, 8536.	0.9	13
25	Towards Broadband Multi-species Trace Gas Detection Using a Mid-infrared Supercontinuum Source. , 2018, , .		1
26	Mid-infrared Dual-comb Spectroscopy in An Electrical Discharge. , 2018, , .		0
27	Detection of N ₂ O Using An External-Cavity Quantum Cascade Laser. , 2018, , .		0
28	Implementation and characterization of an RF ion funnel ion guide as a proton transfer reaction chamber. <i>International Journal of Mass Spectrometry</i> , 2017, 414, 31-38.	0.7	16
29	A photonic microsystem for hydrocarbon gas analysis by mid-infrared absorption spectroscopy. , 2017, , .		0
30	A widely tunable, near-infrared laser-based trace gas sensor for hydrogen cyanide (HCN) detection in exhaled breath. <i>Applied Physics B: Lasers and Optics</i> , 2017, 123, 1.	1.1	21
31	Reduced nitric oxide levels during drought stress promote drought tolerance in barley and is associated with elevated polyamine biosynthesis. <i>Scientific Reports</i> , 2017, 7, 13311.	1.6	79
32	Phasor representation for the nonlinear photoacoustic signal. <i>European Journal of Physics</i> , 2017, 38, 065803.	0.3	1
33	Ethylene, an early marker of systemic inflammation in humans. <i>Scientific Reports</i> , 2017, 7, 6889.	1.6	32
34	Enhancing sensitivity beyond the optical effective pathlength in cavity-enhanced spectroscopy. , 2017, , .		0
35	Functionalizing a Tapered Microcavity as a Gas Cell for On-Chip Mid-Infrared Absorption Spectroscopy. <i>Sensors</i> , 2017, 17, 2041.	2.1	2
36	Mid-infrared dual-comb spectroscopy for real-time gas analysis with an optical parametric oscillator. , 2017, , .		0

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37	Online Gas Monitoring with Mid-Infrared Optical Parametric Oscillator Based Dual-Comb Spectrometer. , 2017, , .		0
38	Influence of Ethanol on Breath Acetone Measurements Using an External Cavity Quantum Cascade Laser. Photonics, 2016, 3, 22.	0.9	17
39	ABA Suppresses Botrytis cinerea Elicited NO Production in Tomato to Influence H2O2 Generation and Increase Host Susceptibility. Frontiers in Plant Science, 2016, 7, 709.	1.7	65
40	Hydrogen cyanide emission in the lung by <i>Staphylococcus aureus</i> . European Respiratory Journal, 2016, 48, 577-579.	3.1	10
41	Roadmap on ultrafast optics. Journal of Optics (United Kingdom), 2016, 18, 093006.	1.0	46
42	Laser-Based Methods for Detection of Nitric Oxide in Plants. Methods in Molecular Biology, 2016, 1424, 113-126.	0.4	1
43	Quantum cascade laser-based sensors for the detection of exhaled carbon monoxide. Applied Physics B: Lasers and Optics, 2016, 122, 1.	1.1	28
44	Identification of Pseudomonas aeruginosa and Aspergillus fumigatus mono- and co-cultures based on volatile biomarker combinations. Journal of Breath Research, 2016, 10, 016002.	1.5	46
45	Detection of <i>Staphylococcus aureus</i> in cystic fibrosis patients using breath VOC profiles. Journal of Breath Research, 2016, 10, 046014.	1.5	42
46	Dual-Frequency Comb Spectroscopy: A Digital Solution for Coherent Averaging. , 2016, , .		1
47	Laser based Spectroscopic Sensing for Biological and Medical Applications. , 2016, , .		0
48	Extended nitric oxide analysis may improve personalized anti-inflammatory treatment in asthmatic children with intermediate F _E NO ₅₀ . Journal of Breath Research, 2015, 9, 047114.	1.5	12
49	Multi-nonlinear Effects in a Two-crystal Optical Parametric Oscillator. , 2015, , .		0
50	Aboveground and Belowground Herbivores Synergistically Induce Volatile Organic Sulfur Compound Emissions from Shoots but Not from Roots. Journal of Chemical Ecology, 2015, 41, 631-640.	0.9	42
51	Optimization and sensitive detection of sulfur compounds emitted from plants using proton transfer reaction mass spectrometry. International Journal of Mass Spectrometry, 2015, 386, 6-14.	0.7	10
52	The calcium-sensing receptor: A promising target for prevention of colorectal cancer. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 2158-2167.	1.9	50
53	A compact laser-based spectrometer for detection of C2H2 in exhaled breath and HCN in vitro. Applied Physics B: Lasers and Optics, 2015, 118, 275-280.	1.1	22
54	Femtosecond optical parametric oscillators toward real-time dual-comb spectroscopy. Applied Physics B: Lasers and Optics, 2015, 119, 65-74.	1.1	47

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55	Chilling-Induced Changes in Aroma Volatile Profiles in Tomato. Food and Bioprocess Technology, 2015, 8, 1442-1454.	2.6	44
56	Comprehensive Data Scientific Procedure for Enhanced Analysis and Interpretation of Real-Time Breath Measurements in In Vivo Aroma-Release Studies. Analytical Chemistry, 2015, 87, 10338-10345.	3.2	9
57	External cavity diode laser-based detection of trace gases with NICE-OHMS using current modulation. Optics Express, 2015, 23, 6277.	1.7	8
58	Broadly, independent-tunable, dual-wavelength mid-infrared ultrafast optical parametric oscillator. Optics Express, 2015, 23, 20418.	1.7	27
59	Doppler-broadened mid-infrared noise-immune cavity-enhanced optical heterodyne molecular spectrometry based on an optical parametric oscillator for trace gas detection. Optics Letters, 2015, 40, 439.	1.7	21
60	Changes in urine headspace composition as an effect of strenuous walking. Metabolomics, 2015, 11, 1656-1666.	1.4	19
61	Real-time monitoring of hydrogen cyanide (HCN) and ammonia (NH ₃) emitted by <i>Pseudomonas aeruginosa</i> . Journal of Breath Research, 2015, 9, 027102.	1.5	29
62	Mid-infrared Two-color Optical Parametric Oscillator across a 30 THz Spectral Range. , 2015, , .		0
63	Two-crystal Optical Parametric Oscillator for Broadband Dual-comb Spectroscopy. , 2015, , .		0
64	LATE-BREAKING ABSTRACT: Extended NO analysis is useful to modify anti-inflammatory treatment in asthmatic children with intermediate F _E NO ₅₀ . , 2015, , .		0
65	Volatile organic compounds emitted by <i>pseudomonas aeruginosa</i> and <i>aspergillus fumigatus</i> mono-cultures and in co-culture. , 2015, , .		0
66	High power, widely tunable, mode-hop free, continuous wave external cavity quantum cascade laser for multi-species trace gas detection. Applied Physics Letters, 2014, 105, .	1.5	21
67	Two-crystal mid-infrared optical parametric oscillator for absorption and dispersion dual-comb spectroscopy. Optics Letters, 2014, 39, 3270.	1.7	67
68	Sensitivity enhancement in off-axis integrated cavity output spectroscopy. Optics Express, 2014, 22, 27985.	1.7	27
69	Breath acetone to monitor life style interventions in field conditions: An exploratory study. Obesity, 2014, 22, 980-983.	1.5	23
70	An assessment of the biotechnological use of hemoglobin modulation in cereals. Physiologia Plantarum, 2014, 150, 593-603.	2.6	30
71	Dynamic changes of the ethylene biosynthesis in 'Jonagold'™ apple. Physiologia Plantarum, 2014, 150, 161-173.	2.6	12
72	Real-time monitoring of endogenous lipid peroxidation by exhaled ethylene in patients undergoing cardiac surgery. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2014, 307, L509-L515.	1.3	27

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73	Three mirror off axis integrated cavity output spectroscopy for the detection of ethylene using a quantum cascade laser. <i>Sensors and Actuators B: Chemical</i> , 2014, 203, 311-319.	4.0	35
74	Broadband Mid-infrared Dual-comb Spectroscopy with a Two-crystal Optical Parametric Oscillator. , 2014, , .		0
75	Continuous-wave optical parametric oscillator based infrared spectroscopy for sensitive molecular gas sensing. <i>Laser and Photonics Reviews</i> , 2013, 7, 188-206.	4.4	66
76	Spectroscopic monitoring of NO traces in plants and human breath: applications and perspectives. <i>Applied Physics B: Lasers and Optics</i> , 2013, 110, 203-211.	1.1	23
77	Current methods for detecting ethylene in plants. <i>Annals of Botany</i> , 2013, 111, 347-360.	1.4	125
78	Volatile organic compound emissions from elephant grass and bamboo cultivars used as potential bioethanol crop. <i>Atmospheric Environment</i> , 2013, 65, 61-68.	1.9	20
79	Aroma volatile release kinetics of tomato genotypes measured by PTR-MS following artificial chewing. <i>Food Research International</i> , 2013, 54, 1579-1588.	2.9	25
80	Nitric oxide in plants: an assessment of the current state of knowledge. <i>AoB PLANTS</i> , 2013, 5, pls052-pls052.	1.2	392
81	Quantum cascade laser-based sensor for detection of exhaled and biogenic nitric oxide. <i>Applied Physics B: Lasers and Optics</i> , 2013, 111, 359-365.	1.1	33
82	Optical Parametric Oscillator based detection of HCN for bio-medical applications. , 2013, , .		0
83	The form of nitrogen nutrition affects resistance against <i>Pseudomonas syringae</i> pv. <i>phaseolicola</i> in tobacco. <i>Journal of Experimental Botany</i> , 2013, 64, 553-568.	2.4	116
84	Online, real-time detection of volatile emissions from plant tissue. <i>AoB PLANTS</i> , 2013, 5, plt003.	1.2	27
85	Photoperiodic regulation of the sucrose transporter StSUT4 affects the expression of circadian-regulated genes and ethylene production. <i>Frontiers in Plant Science</i> , 2013, 4, 26.	1.7	76
86	Tobacco LSU-like protein couples sulphur-deficiency response with ethylene signalling pathway. <i>Journal of Experimental Botany</i> , 2013, 64, 5173-5182.	2.4	31
87	Methods of NO detection in exhaled breath. <i>Journal of Breath Research</i> , 2013, 7, 017104.	1.5	63
88	Optical parametric oscillator-based photoacoustic detection of hydrogen cyanide for biomedical applications. <i>Journal of Biomedical Optics</i> , 2013, 18, 107002.	1.4	22
89	Dual frequency combs fourier transform spectrometer in mid-infrared region based on femtosecond optical parametric oscillators. , 2013, , .		0
90	Optical parametric oscillator based detection of hydrogen cyanide for bio-medical applications. , 2013, , .		0

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91	Mid-infrared frequency comb based-on low threshold optical parametric oscillator. , 2013, , .		0
92	Pulmonary infection, and not systemic inflammation, accounts for increased concentrations of exhaled nitric oxide in patients with septic shock. Journal of Breath Research, 2013, 7, 036003.	1.5	7
93	Inhibition of Lipid Peroxidation Induced by Ultraviolet Radiation by Crude Phlorotannis Isolated from Brown Algae & Sargassum hystrix v. buxifolium& C. Agardh. Indonesian Journal of Chemistry, 2013, 13, 14-20.	0.3	5
94	Mid-Infrared Frequency Combs based on Optical Parametric Oscillators for Spectroscopy. , 2013, , .		0
95	Development of the External Cavity Quantum Cascade Laser for spectroscopic applications. , 2013, , .		0
96	Real-time analysis of sulfur-containing volatiles in Brassica plants infested with root-feeding <i>Delia radicum</i> larvae using proton-transfer reaction mass spectrometry. AoB PLANTS, 2012, 2012, pls021.	1.2	37
97	Exhaled nitric oxide monitoring by quantum cascade laser: comparison with chemiluminescent and electrochemical sensors. Journal of Biomedical Optics, 2012, 17, 017003.	1.4	51
98	Haemoglobin modulates NO emission and hyponasty under hypoxia-related stress in <i>Arabidopsis thaliana</i> . Journal of Experimental Botany, 2012, 63, 5581-5591.	2.4	108
99	Haemoglobin modulates salicylate and jasmonate/ethylene-mediated resistance mechanisms against pathogens. Journal of Experimental Botany, 2012, 63, 4375-4387.	2.4	117
100	Stress responses of duckweed (<i>Lemna minor</i> L.) and water velvet (<i>Azolla filiculoides</i> Lam.) to anionic surfactant sodium-dodecyl-sulphate (SDS). Aquatic Toxicology, 2012, 110-111, 107-113.	1.9	33
101	On-line detection of root-induced volatiles in <i>Brassica nigra</i> plants infested with <i>Delia radicum</i> L. root fly larvae. Phytochemistry, 2012, 84, 68-77.	1.4	55
102	Potential biomarkers for identification of mycobacterial cultures by proton transfer reaction mass spectrometry analysis. Rapid Communications in Mass Spectrometry, 2012, 26, 679-685.	0.7	16
103	Proton-transfer reaction mass spectrometry (PTRMS) in combination with thermal desorption (TD) for sensitive off-line analysis of volatiles. Rapid Communications in Mass Spectrometry, 2012, 26, 990-996.	0.7	13
104	Rapid Tomato Volatile Profiling by Using Proton-transfer Reaction Mass Spectrometry (PTRMS). Journal of Food Science, 2012, 77, C551-9.	1.5	51
105	Emission of volatile compounds by <i>Erwinia amylovora</i> : biological activity in vitro and possible exploitation for bacterial identification. Trees - Structure and Function, 2012, 26, 141-152.	0.9	28
106	Screening for emphysema via exhaled volatile organic compounds. Journal of Breath Research, 2011, 5, 046009.	1.5	34
107	Real-time, subsecond, multicomponent breath analysis by Optical Parametric Oscillator based Off-Axis Integrated Cavity Output Spectroscopy. Optics Express, 2011, 19, 24078.	1.7	48
108	Proton Transfer Reaction Mass Spectrometry detects rapid changes in volatile metabolite emission by <i>Mycobacterium smegmatis</i> after the addition of specific antimicrobial agents. Journal of Microbiological Methods, 2011, 86, 8-15.	0.7	29

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109	Methods of nitric oxide detection in plants: A commentary. <i>Plant Science</i> , 2011, 181, 509-519.	1.7	119
110	EMISSION OF VOLATILES DURING THE PATHOGENIC INTERACTION BETWEEN ERWINIA AMYLOVORA AND MALUS DOMESTICA. <i>Acta Horticulturae</i> , 2011, , 55-63.	0.1	7
111	[Letter to the editor] Ethylene emitted by nylon membrane filters questions their usefulness to transfer plant seedlings between media. <i>BioTechniques</i> , 2011, 51, 329-30, 333.	0.8	1
112	HIGHLY SENSITIVE ETHYLENE DETECTOR FOR ON-LINE MEASUREMENTS ON KIWI FRUITS. <i>Acta Horticulturae</i> , 2011, , 651-656.	0.1	3
113	Metabolomic approaches reveal that cell wall modifications play a major role in ethylene-mediated resistance against <i>Botrytis cinerea</i> . <i>Plant Journal</i> , 2011, 67, 852-868.	2.8	77
114	Rapid and sensitive trace gas detection with continuous wave Optical Parametric Oscillator-based Wavelength Modulation Spectroscopy. <i>Applied Physics B: Lasers and Optics</i> , 2011, 103, 223-228.	1.1	18
115	OPO Based Off-Axis Integrated Cavity Output Spectroscopy for Rapid Chemical Sensing. , 2010, , .		0
116	<i>Serratia odorifera</i> : analysis of volatile emission and biological impact of volatile compounds on <i>Arabidopsis thaliana</i> . <i>Applied Microbiology and Biotechnology</i> , 2010, 88, 965-976.	1.7	141
117	Quantitative gas measurements using a versatile OPO-based cavity ringdown spectrometer and the comparison with spectroscopic databases. <i>Applied Physics B: Lasers and Optics</i> , 2010, 100, 383-390.	1.1	30
118	Systems analysis of the responses to long-term magnesium deficiency and restoration in <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , 2010, 187, 132-144.	3.5	140
119	Involvement of ethylene and nitric oxide in cell death in mastoparan-treated unicellular alga <i>Chlamydomonas reinhardtii</i> . <i>Cell Biology International</i> , 2010, 34, 301-308.	1.4	68
120	K ⁺ starvation inhibits water-stress-induced stomatal closure via ethylene synthesis in sunflower plants. <i>Journal of Experimental Botany</i> , 2010, 61, 1139-1145.	2.4	81
121	Optical parametric oscillator based off-axis integrated cavity output spectroscopy for rapid chemical sensing. <i>Optics Letters</i> , 2010, 35, 3300.	1.7	29
122	Biphasic ethylene production during the hypersensitive response in <i>Arabidopsis</i> . <i>Plant Signaling and Behavior</i> , 2009, 4, 610-613.	1.2	28
123	SAM levels, gene expression of SAM synthetase, methionine synthase and ACC oxidase, and ethylene emission from <i>N. suaveolens</i> flowers. <i>Plant Molecular Biology</i> , 2009, 70, 535-546.	2.0	58
124	Inhibition of wound-induced ethylene does not prevent red discoloration in fresh-cut endive (<i>Cichorium intybus</i> L.). <i>European Food Research and Technology</i> , 2009, 228, 651-657.	1.6	18
125	Thermal effects in singly resonant continuous-wave optical parametric oscillators. <i>Applied Physics B: Lasers and Optics</i> , 2009, 94, 411-427.	1.1	70
126	Jasmonates act with salicylic acid to confer basal thermotolerance in <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , 2009, 182, 175-187.	3.5	311

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127	Airborne Measurements of Ethene from Industrial Sources Using Laser Photo-Acoustic Spectroscopy. <i>Environmental Science & Technology</i> , 2009, 43, 2437-2442.	4.6	57
128	Mastoparan-Induced Cell Death Signalling in <i>Chlamydomonas Reinhardtii</i> . <i>Biotechnology and Biotechnological Equipment</i> , 2009, 23, 730-734.	0.5	4
129	Laser-based systems for trace gas detection in life sciences. <i>Applied Physics B: Lasers and Optics</i> , 2008, 92, 343.	1.1	133
130	Cadmium toxicity in cultured tomato cells – Role of ethylene, proteases and oxidative stress in cell death signaling. <i>Cell Biology International</i> , 2008, 32, 1521-1529.	1.4	56
131	Singly resonant cw OPO with simple wavelength tuning. <i>Optics Express</i> , 2008, 16, 11141.	1.7	61
132	Nitric Oxide Interacts with Salicylate to Regulate Biphasic Ethylene Production during the Hypersensitive Response. <i>Plant Physiology</i> , 2008, 148, 1537-1546.	2.3	102
133	Micro-aerobics: when rice plants lose their resistance against oxygen. <i>Physica Scripta</i> , 2008, 78, 058125.	1.2	3
134	Photoacoustic Spectroscopy Using Continuous Wave Optical Parametric Oscillators. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2008, , 511-533.	0.2	8
135	Quartz-enhanced photoacoustic spectroscopy of HCN from 6433 to 6613 cm ⁻¹ . , 2008, , .		0
136	An off-line breath sampling and analysis method suitable for large screening studies. <i>Physiological Measurement</i> , 2007, 28, 503-514.	1.2	39
137	The suitability of Tedlar bags for breath sampling in medical diagnostic research. <i>Physiological Measurement</i> , 2007, 28, 73-84.	1.2	102
138	Selective trace gas detection of complex molecules with a continuous wave optical parametric oscillator using a planar jet expansion. <i>Applied Physics Letters</i> , 2007, 90, 081109.	1.5	11
139	Sensitive Trace Gas Detection in a Jet Expansion Using cw OPO-based Cavity Ringdown Spectroscopy. , 2007, , .		0
140	Ethylene Production is Associated with Germination but not Seed Dormancy in Red Rice. <i>Annals of Botany</i> , 2007, 99, 735-745.	1.4	43
141	Reduction of ethylene emission from Scots pine elicited by insect egg secretion. <i>Journal of Experimental Botany</i> , 2007, 58, 1835-1842.	2.4	31
142	Mid-infrared continuous wave cavity ring down spectroscopy of molecular ions using an optical parametric oscillator. <i>Chemical Physics Letters</i> , 2007, 442, 145-149.	1.2	25
143	Development of a proton-transfer reaction ion trap mass spectrometer: Online detection and analysis of volatile organic compounds. <i>International Journal of Mass Spectrometry</i> , 2007, 262, 16-24.	0.7	33
144	Collision induced dissociation study of 10 monoterpenes for identification in trace gas measurements using the newly developed proton-transfer reaction ion trap mass spectrometer. <i>International Journal of Mass Spectrometry</i> , 2007, 263, 204-212.	0.7	32

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145	No evidence for substantial aerobic methane emission by terrestrial plants: a ^{13}C -labelling approach. <i>New Phytologist</i> , 2007, 175, 29-35.	3.5	158
146	Continuous wave optical parametric oscillator for quartz-enhanced photoacoustic trace gas sensing. <i>Applied Physics B: Lasers and Optics</i> , 2007, 89, 123.	1.1	46
147	Patterns of peroxidative ethane emission from submerged rice seedlings indicate that damage from reactive oxygen species takes place during submergence and is not necessarily a post-anoxic phenomenon. <i>Planta</i> , 2007, 226, 193-202.	1.6	56
148	Ethylene production of <i>Botrytis cinerea</i> in vitro and during in planta infection of tomato fruits. , 2007, , 395-397.		1
149	Life science trace gas facility: a way towards top-research on biological systems. , 2007, , 441-442.		0
150	Study of Gas Exchange in Insects by Sensitive Laser Photoacoustic Spectroscopy. <i>Instrumentation Science and Technology</i> , 2006, 34, 85-96.	0.9	1
151	Sub-part-per-billion monitoring of nitric oxide by use of wavelength modulation spectroscopy in combination with a thermoelectrically cooled, continuous-wave quantum cascade laser. <i>Optics Letters</i> , 2006, 31, 823.	1.7	58
152	Real-time trace gas sensing of ethylene, propanal and acetaldehyde from human skin in vivo. <i>Physiological Measurement</i> , 2006, 27, 1187-1196.	1.2	33
153	Ethylene and carbon dioxide production by developing strawberries show a correlative pattern that is indicative of ripening climacteric fruit. <i>Physiologia Plantarum</i> , 2006, 127, 247-259.	2.6	105
154	On-line monitoring of UV-induced lipid peroxidation products from human skin in vivo using proton-transfer reaction mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2006, 253, 58-64.	0.7	45
155	Involvement of ethylene and lipid signalling in cadmium-induced programmed cell death in tomato suspension cells. <i>Plant Physiology and Biochemistry</i> , 2006, 44, 581-589.	2.8	76
156	Ethanol and Methanol as Possible Odor Cues for Egyptian Fruit Bats (<i>Rousettus aegyptiacus</i>). <i>Journal of Chemical Ecology</i> , 2006, 32, 1289-1300.	0.9	54
157	Organ-specific analysis of the anaerobic primary metabolism in rice and wheat seedlings. I: Dark ethanol production is dominated by the shoots. <i>Planta</i> , 2006, 225, 103-114.	1.6	62
158	Organ specific analysis of the anaerobic primary metabolism in rice and wheat seedlings II: Light exposure reduces needs for fermentation and extends survival during anaerobiosis. <i>Planta</i> , 2006, 225, 139-152.	1.6	29
159	Optical parametric oscillator-based photoacoustic detection of CO_2 at $4.23\ \mu\text{m}$ allows real-time monitoring of the respiration of small insects. <i>Applied Physics B: Lasers and Optics</i> , 2006, 82, 665-669.	1.1	45
160	Quantum cascade laser-based carbon monoxide detection on a second time scale from human breath. <i>Applied Physics B: Lasers and Optics</i> , 2006, 82, 649-654.	1.1	45
161	Automatically tunable continuous-wave optical parametric oscillator for high-resolution spectroscopy and sensitive trace-gas detection. <i>Applied Physics B: Lasers and Optics</i> , 2006, 85, 173-180.	1.1	64
162	Gas Transport through the Root-shoot Transition Zone of Rice Tillers. <i>Plant and Soil</i> , 2005, 277, 107-116.	1.8	22

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163	RP-ACS1, a flooding-induced 1-aminocyclopropane-1-carboxylate synthase gene of <i>Rumex palustris</i> , is involved in rhythmic ethylene production. <i>Journal of Experimental Botany</i> , 2005, 56, 841-849.	2.4	42
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