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List of Publications by Year in descending order

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papers

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116
times ranked

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#	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	A Breach in Plant Defences: <i>Pseudomonas syringae</i> pv. <i>actinidiae</i> Targets Ethylene Signalling to Overcome <i>Actinidia chinensis</i> Pathogen Responses. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4375.	1.8	12
4	The peppermint breath test benchmark for PTR-MS and SIFT-MS. <i>Journal of Breath Research</i> , 2021, 15, 046005.	1.5	15
5	Volatile Organic Compounds in the Azteca/Cecropia Ant-Plant Symbiosis and the Role of Black Fungi. <i>Journal of Fungi</i> (Basel, Switzerland), 2021, 7, 836.	1.5	5
6	Characterization of particulate and gaseous pollutants from a French dairy and sheep farm. <i>Science of the Total Environment</i> , 2020, 712, 135598.	3.9	11
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	Optical spectroscopy. , 2020, , 221-238.		1
9	A benchmarking protocol for breath analysis: the peppermint experiment. <i>Journal of Breath Research</i> , 2020, 14, 046008.	1.5	41
10	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
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	Proton transfer reaction time-of-flight mass spectrometric measurements of volatile compounds contained in peppermint oil capsules of relevance to real-time pharmacokinetic breath studies. <i>Journal of Breath Research</i> , 2019, 13, 046009.	1.5	34
13	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
14	Cell death signaling and morphology in chemical-treated tobacco BY-2 suspension cultured cells. <i>Environmental and Experimental Botany</i> , 2019, 164, 157-169.	2.0	6
15	Human Monocyte-Derived Dendritic Cells Produce Millimolar Concentrations of ROS in Phagosomes Per Second. <i>Frontiers in Immunology</i> , 2019, 10, 1216.	2.2	42
16	Time-resolved mid-infrared dual-comb spectroscopy. <i>Scientific Reports</i> , 2019, 9, 17247.	1.6	42
17	Mid-infrared dual-comb spectroscopy with absolute frequency calibration using a passive optical reference. <i>Optics Express</i> , 2019, 27, 19282.	1.7	7
18	Biological effect of VOCs produced during <i>Pseudomonas syringae</i> pv. <i>actinidiae</i> infection of kiwifruit plant. <i>Acta Horticulturae</i> , 2019, , 7-14.	0.1	0

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19	Experimental-based comparison between off-axis integrated cavity output spectroscopy and multipass-assisted wavelength modulation spectroscopy at 77â€¦. <i>OSA Continuum</i> , 2019, 2, 2667.	1.8	3
20	Biological relevance of volatile organic compounds emitted during the pathogenic interactions between apple plants and <i>Erwinia amylovora</i> . <i>Molecular Plant Pathology</i> , 2018, 19, 158-168.	2.0	42
21	Herbivore-induced plant volatiles accurately predict history of coexistence, diet breadth, and feeding mode of herbivores. <i>New Phytologist</i> , 2018, 220, 726-738.	3.5	50
22	Lipid peroxidation in cardiac surgery: towards consensus on biomonitoring, diagnostic tools and therapeutic implementation. <i>Journal of Breath Research</i> , 2018, 12, 027109.	1.5	12
23	Interactive Responses of <i>Solanum Dulcamara</i> to Drought and Insect Feeding are Herbivore Species-Specific. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3845.	1.8	17
24	Laser spectroscopy for breath analysis: towards clinical implementation. <i>Applied Physics B: Lasers and Optics</i> , 2018, 124, 161.	1.1	124
25	Sensitive Spectroscopy of Acetone Using a Widely Tunable External-Cavity Quantum Cascade Laser. <i>Sensors</i> , 2018, 18, 2050.	2.1	25
26	Quantum Cascade Lasers-Based Detection of Nitric Oxide. <i>Methods in Molecular Biology</i> , 2018, 1747, 49-57.	0.4	2
27	Comprehensive three-dimensional ray tracing model for three-mirror cavity-enhanced spectroscopy. <i>Applied Optics</i> , 2018, 57, 154.	0.9	11
28	Intensity enhancement in off-axis integrated cavity output spectroscopy. <i>Applied Optics</i> , 2018, 57, 8536.	0.9	13
29	Towards Broadband Multi-species Trace Gas Detection Using a Mid-infrared Supercontinuum Source. , 2018, , .		1
30	Optical re-injection in Off-Axis Integrated Cavity Output Spectroscopy, modelling and experiments. , 2018, , .		0
31	Enhanced off-axis integrated cavity output spectroscopy using optical reinjection in the mid-IR wavelength region. , 2018, , .		0
32	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
33	Combining ANOVA-PCA with POCHEMON to analyse micro-organism development in a polymicrobial environment. <i>Analytica Chimica Acta</i> , 2017, 963, 1-16.	2.6	8
34	A European Respiratory Society technical standard: exhaled biomarkers in lung disease. <i>European Respiratory Journal</i> , 2017, 49, 1600965.	3.1	432
35	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
36	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

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37	Ethylene, an early marker of systemic inflammation in humans. <i>Scientific Reports</i> , 2017, 7, 6889.	1.6	32
38	Mid-infrared dual-comb spectroscopy for real-time gas analysis with an optical parametric oscillator. , 2017, , .		0
39	Online Gas Monitoring with Mid-Infrared Optical Parametric Oscillator Based Dual-Comb Spectrometer. , 2017, , .		0
40	Influence of Ethanol on Breath Acetone Measurements Using an External Cavity Quantum Cascade Laser. <i>Photonics</i> , 2016, 3, 22.	0.9	17
41	A Comparative Study of Ethylene Emanation upon Nitrogen Deficiency in Natural Accessions of <i>Arabidopsis thaliana</i> . <i>Frontiers in Plant Science</i> , 2016, 7, 70.	1.7	9
42	ABA Suppresses <i>Botrytis cinerea</i> Elicited NO Production in Tomato to Influence H ₂ O ₂ Generation and Increase Host Susceptibility. <i>Frontiers in Plant Science</i> , 2016, 7, 709.	1.7	65
43	A Co-Opted Hormonal Cascade Activates Dormant Adventitious Root Primordia upon Flooding in <i>Solanum dulcamara</i> . <i>Plant Physiology</i> , 2016, 170, 2351-2364.	2.3	80
44	Drought and flooding have distinct effects on herbivore-induced responses and resistance in <i>Solanum dulcamara</i> . <i>Plant, Cell and Environment</i> , 2016, 39, 1485-1499.	2.8	59
45	Hydrogen cyanide emission in the lung by <i>Staphylococcus aureus</i> . <i>European Respiratory Journal</i> , 2016, 48, 577-579.	3.1	10
46	Laser-Based Methods for Detection of Nitric Oxide in Plants. <i>Methods in Molecular Biology</i> , 2016, 1424, 113-126.	0.4	1
47	Peptides interfering with protein-protein interactions in the ethylene signaling pathway delay tomato fruit ripening. <i>Scientific Reports</i> , 2016, 6, 30634.	1.6	24
48	Quantum cascade laser-based sensors for the detection of exhaled carbon monoxide. <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1.	1.1	28
49	Mid-Infrared Gas Sensing with Optical Parametric Oscillator based Dual-Comb Spectrometer. , 2016, , .		0
50	Multi-nonlinear Effects in a Two-crystal Optical Parametric Oscillator. , 2015, , .		0
51	Aboveground and Belowground Herbivores Synergistically Induce Volatile Organic Sulfur Compound Emissions from Shoots but Not from Roots. <i>Journal of Chemical Ecology</i> , 2015, 41, 631-640.	0.9	42
52	Optimization and sensitive detection of sulfur compounds emitted from plants using proton transfer reaction mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2015, 386, 6-14.	0.7	10
53	Femtosecond optical parametric oscillators toward real-time dual-comb spectroscopy. <i>Applied Physics B: Lasers and Optics</i> , 2015, 119, 65-74.	1.1	47
54	Chilling-Induced Changes in Aroma Volatile Profiles in Tomato. <i>Food and Bioprocess Technology</i> , 2015, 8, 1442-1454.	2.6	44

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55	Changes in urine headspace composition as an effect of strenuous walking. <i>Metabolomics</i> , 2015, 11, 1656-1666.	1.4	19
56	Real-time monitoring of hydrogen cyanide (HCN) and ammonia (NH ₃) emitted by <i>Pseudomonas aeruginosa</i> . <i>Journal of Breath Research</i> , 2015, 9, 027102.	1.5	29
57	Mid-infrared Two-color Optical Parametric Oscillator across a 30 THz Spectral Range. , 2015, , .		0
58	Reactive oxygen species, abscisic acid and ethylene interact to regulate sunflower seed germination. <i>Plant, Cell and Environment</i> , 2015, 38, 364-374.	2.8	125
59	Research Tools: Ethylene Detection. , 2015, , 263-286.		1
60	Two-crystal Optical Parametric Oscillator for Broadband Dual-comb Spectroscopy. , 2015, , .		0
61	Tomato ACS4 is necessary for timely start of and progression through the climacteric phase of fruit ripening. <i>Frontiers in Plant Science</i> , 2014, 5, 466.	1.7	19
62	Two-crystal mid-infrared optical parametric oscillator for absorption and dispersion dual-comb spectroscopy. <i>Optics Letters</i> , 2014, 39, 3270.	1.7	67
63	Breath acetone to monitor life style interventions in field conditions: An exploratory study. <i>Obesity</i> , 2014, 22, 980-983.	1.5	23
64	An assessment of the biotechnological use of hemoglobin modulation in cereals. <i>Physiologia Plantarum</i> , 2014, 150, 593-603.	2.6	30
65	Dynamic changes of the ethylene biosynthesis in 'Jonagold' apple. <i>Physiologia Plantarum</i> , 2014, 150, 161-173.	2.6	12
66	Alien interference: disruption of infochemical networks by invasive insect herbivores. <i>Plant, Cell and Environment</i> , 2014, 37, 1854-1865.	2.8	55
67	Real-time monitoring of endogenous lipid peroxidation by exhaled ethylene in patients undergoing cardiac surgery. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014, 307, L509-L515.	1.3	27
68	Identification of Volatile Markers in Potato Brown Rot and Ring Rot by Combined GC-MS and PTR-MS Techniques: Study on in Vitro and in Vivo Samples. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 337-347.	2.4	28
69	How to Assess Alveolar Nitric Oxide. <i>Chest</i> , 2014, 146, e234-e235.	0.4	1
70	Broadband Mid-infrared Dual-comb Spectroscopy with a Two-crystal Optical Parametric Oscillator. , 2014, , .		0
71	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
72	Current methods for detecting ethylene in plants. <i>Annals of Botany</i> , 2013, 111, 347-360.	1.4	125

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73	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
74	Nitric oxide in plants: an assessment of the current state of knowledge. <i>AoB PLANTS</i> , 2013, 5, pls052-pls052.	1.2	392
75	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
76	Online, real-time detection of volatile emissions from plant tissue. <i>AoB PLANTS</i> , 2013, 5, plt003.	1.2	27
77	Photoperiodic regulation of the sucrose transporter <i>StSUT4</i> affects the expression of circadian-regulated genes and ethylene production. <i>Frontiers in Plant Science</i> , 2013, 4, 26.	1.7	76
78	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
79	Optical parametric oscillator-based photoacoustic detection of hydrogen cyanide for biomedical applications. <i>Journal of Biomedical Optics</i> , 2013, 18, 107002.	1.4	22
80	Dual frequency combs fourier transform spectrometer in mid-infrared region based on femtosecond optical parametric oscillators. , 2013, , .		0
81	Mid-infrared frequency comb based-on low threshold optical parametric oscillator. , 2013, , .		0
82	Reactive oxygen production induced by near-infrared radiation in three strains of the Chl d-containing cyanobacterium <i>Acaryochloris marina</i> . <i>F1000Research</i> , 2013, 2, 44.	0.8	10
83	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. <i>AoB PLANTS</i> , 2012, 2012, pls021.	1.2	37
84	Exhaled nitric oxide monitoring by quantum cascade laser: comparison with chemiluminescent and electrochemical sensors. <i>Journal of Biomedical Optics</i> , 2012, 17, 017003.	1.4	51
85	Haemoglobin modulates NO emission and hyponasty under hypoxia-related stress in <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , 2012, 63, 5581-5591.	2.4	108
86	Haemoglobin modulates salicylate and jasmonate/ethylene-mediated resistance mechanisms against pathogens. <i>Journal of Experimental Botany</i> , 2012, 63, 4375-4387.	2.4	117
87	On-line detection of root-induced volatiles in <i>Brassica nigra</i> plants infested with <i>Delia radicum</i> L. root fly larvae. <i>Phytochemistry</i> , 2012, 84, 68-77.	1.4	55
88	Proton-transfer reaction mass spectrometry (PTRMS) in combination with thermal desorption (TD) for sensitive offline analysis of volatiles. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 990-996.	0.7	13
89	Tracing Hidden Herbivores: Time-Resolved Non-Invasive Analysis of Belowground Volatiles by Proton-Transfer-Reaction Mass Spectrometry (PTR-MS). <i>Journal of Chemical Ecology</i> , 2012, 38, 785-794.	0.9	50
90	Rapid Tomato Volatile Profiling by Using Proton-transfer Reaction Mass Spectrometry (PTR-MS). <i>Journal of Food Science</i> , 2012, 77, C551-9.	1.5	51

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91	Emission of volatile compounds by <i>Erwinia amylovora</i> : biological activity in vitro and possible exploitation for bacterial identification. <i>Trees - Structure and Function</i> , 2012, 26, 141-152.	0.9	28
92	Real-time, subsecond, multicomponent breath analysis by Optical Parametric Oscillator based Off-Axis Integrated Cavity Output Spectroscopy. <i>Optics Express</i> , 2011, 19, 24078.	1.7	48
93	Methods of nitric oxide detection in plants: A commentary. <i>Plant Science</i> , 2011, 181, 509-519.	1.7	119
94	[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
95	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
96	<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
97	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
98	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
99	Optical parametric oscillator based off-axis integrated cavity output spectroscopy for rapid chemical sensing. <i>Optics Letters</i> , 2010, 35, 3300.	1.7	29
100	Biphasic ethylene production during the hypersensitive response in <i>Arabidopsis</i> . <i>Plant Signaling and Behavior</i> , 2009, 4, 610-613.	1.2	28
101	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
102	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
103	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
104	The suitability of Tedlar bags for breath sampling in medical diagnostic research. <i>Physiological Measurement</i> , 2007, 28, 73-84.	1.2	102
105	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
106	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
107	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
108	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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109	Ethylene Production by <i>Botrytis cinerea</i> In Vitro and in Tomatoes. Applied and Environmental Microbiology, 2002, 68, 5342-5350.	1.4	173
110	<title>Photoacoustic trace gas detection of ethene released by UV-induced lipid peroxidation in humans</title>. , 2000, , .		1
111	Photoacoustic detection of ethylene released by biological samples under stress conditions. , 1998, 3405, 627.		2
112	Real-Time Non-Invasive Monitoring of Short-Chain Fatty Acids in Exhaled Breath. Frontiers in Chemistry, 0, 10, .	1.8	4