

# Stefan Persijn

## List of Publications by Year in descending order

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45  
papers

2,074  
citations

430754

18  
h-index

315616

38  
g-index

47  
all docs

47  
docs citations

47  
times ranked

2929  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitric oxide in plants: an assessment of the current state of knowledge. <i>AoB PLANTS</i> , 2013, 5, pls052-pls052.	1.2	392
2	Review of Portable and Low-Cost Sensors for the Ambient Air Monitoring of Benzene and Other Volatile Organic Compounds. <i>Sensors</i> , 2017, 17, 1520.	2.1	287
3	No evidence for substantial aerobic methane emission by terrestrial plants: a $^{13}\text{C}$ labelling approach. <i>New Phytologist</i> , 2007, 175, 29-35.	3.5	158
4	Laser-based systems for trace gas detection in life sciences. <i>Applied Physics B: Lasers and Optics</i> , 2008, 92, 343.	1.1	133
5	Many-Wavelength Interferometry with Thousands of Lasers for Absolute Distance Measurement. <i>Physical Review Letters</i> , 2012, 108, 183901.	2.9	125
6	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
7	Decreased ascorbic acid levels and brown core development in pears ( <i>Pyrus communis</i> L. cv.) Tj ETQq1 1 0.784314, rgBT /Overlock 10 2.8 99	2.8	99
8	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
9	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
10	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
11	Singly resonant cw OPO with simple wavelength tuning. <i>Optics Express</i> , 2008, 16, 11141.	1.7	61
12	Adsorption of ammonia on treated stainless steel and polymer surfaces. <i>Applied Physics B: Lasers and Optics</i> , 2014, 115, 185-196.	1.1	61
13	Nitrogen fixation along a north-south transect in the eastern Atlantic Ocean. <i>Limnology and Oceanography</i> , 2007, 52, 1305-1316.	1.6	51
14	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
15	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
16	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
17	Hydrogen fuel quality from two main production processes: Steam methane reforming and proton exchange membrane water electrolysis. <i>Journal of Power Sources</i> , 2019, 444, 227170.	4.0	30
18	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

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19	Determination of the TROPOMI-SWIR instrument spectral response function. Atmospheric Measurement Techniques, 2018, 11, 3917-3933.	1.2	21
20	A metrological approach to improve accuracy and reliability of ammonia measurements in ambient air. Measurement Science and Technology, 2016, 27, 115012.	1.4	20
21	Rapid and sensitive trace gas detection with continuous wave Optical Parametric Oscillator-based Wavelength Modulation Spectroscopy. Applied Physics B: Lasers and Optics, 2011, 103, 223-228.	1.1	18
22	Characterization and correction of stray light in TROPOMI-SWIR. Atmospheric Measurement Techniques, 2018, 11, 4493-4507.	1.2	18
23	Review and Survey of Methods for Analysis of Impurities in Hydrogen for Fuel Cell Vehicles According to ISO 14687:2019. Frontiers in Energy Research, 2021, 8, .	1.2	18
24	Photo-acoustic sensor for detection of oil contamination in compressed air systems. Optics Express, 2017, 25, 1806.	1.7	17
25	Metrological quantification of CO in biogas using laser absorption spectroscopy and gas chromatography. Measurement Science and Technology, 2018, 29, 095010.	1.4	13
26	Selective trace gas detection of complex molecules with a continuous wave optical parametric oscillator using a planar jet expansion. Applied Physics Letters, 2007, 90, 081109.	1.5	11
27	Temperature measurement using frequency comb absorption spectroscopy of CO <sub>2</sub> . Review of Scientific Instruments, 2017, 88, 053113.	0.6	11
28	Multi- $\pi$ correlation Fourier transform spectroscopy with the resolved modes of a frequency comb laser. Annalen Der Physik, 2013, 525, 437-442.	0.9	10
29	Effect of moisture on the adsorption of ammonia. Applied Physics B: Lasers and Optics, 2018, 124, 1.	1.1	9
30	Development and evaluation of a novel analyser for ISO14687 hydrogen purity analysis. Measurement Science and Technology, 2020, 31, 075010.	1.4	9
31	Trace level analysis of reactive ISO 14687 impurities in hydrogen fuel using laser-based spectroscopic detection methods. International Journal of Hydrogen Energy, 2020, 45, 34024-34036.	3.8	8
32	Accurate analysis of HCl in biomethane using laser absorption spectroscopy and ion-exchange chromatography. Analyst, The, 2021, 146, 1402-1413.	1.7	8
33	QCLAS and CRDS-Based CO Quantification as Aimed at in Breath Measurements. International Journal of Spectroscopy, 2012, 2012, 1-10.	1.4	7
34	Zero gas reference standards. Analytical Methods, 2016, 8, 3014-3022.	1.3	5
35	Advances in metrology for energy-containing gases and emerging demands. Metrologia, 2021, 58, 012001.	0.6	4
36	Design and experimental verification of a photoacoustic flow sensor using computational fluid dynamics. Applied Optics, 2018, 57, 802.	0.9	3

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37	Preparation and analysis of zero gases for the measurement of trace VOCs in air monitoring. Atmospheric Measurement Techniques, 2018, 11, 3197-3203.	1.2	2
38	Study of Gas Exchange in Insects by Sensitive Laser Photoacoustic Spectroscopy. Instrumentation Science and Technology, 2006, 34, 85-96.	0.9	1
39	Cavity-enhanced direct frequency comb spectroscopy. Proceedings of SPIE, 2011, , .	0.8	1
40	Purity Analysis of Gases Used in the Preparation of Reference Gas Standards Using a Versatile OPO-Based CRDS Spectrometer. Journal of Spectroscopy, 2018, 2018, 1-7.	0.6	1
41	Sensitive Trace Gas Detection in a Jet Expansion Using cw OPO-based Cavity Ringdown Spectroscopy. , 2007, , .		0
42	Fast-Scanning Fibre-Amplified Diode Laser Pumped cw OPO for Sensitive, Multi-Component Trace Gas Detection. , 2007, , .		0
43	Photo-Acoustic Sensor for Detection of Oil Contamination in Compressed Air Systems. , 2017, , .		0
44	Absolute distance measurement with an unraveled femtosecond frequency comb. , 2017, , .		0
45	Flow immune photoacoustic sensor for real-time and fast sampling of trace gases. , 2018, , .		0