

# 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	Advances in metrology for energy-containing gases and emerging demands. Metrologia, 2021, 58, 012001.	0.6	4
2	Accurate analysis of HCl in biomethane using laser absorption spectroscopy and ion-exchange chromatography. Analyst, The, 2021, 146, 1402-1413.	1.7	8
3	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
4	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
5	Development and evaluation of a novel analyser for ISO14687 hydrogen purity analysis. Measurement Science and Technology, 2020, 31, 075010.	1.4	9
6	Hydrogen fuel quality from two main production processes: Steam methane reforming and proton exchange membrane water electrolysis. Journal of Power Sources, 2019, 444, 227170.	4.0	30
7	Determination of the TROPOMI-SWIR instrument spectral response function. Atmospheric Measurement Techniques, 2018, 11, 3917-3933.	1.2	21
8	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
9	Characterization and correction of stray light in TROPOMI-SWIR. Atmospheric Measurement Techniques, 2018, 11, 4493-4507.	1.2	18
10	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
11	Effect of moisture on the adsorption of ammonia. Applied Physics B: Lasers and Optics, 2018, 124, 1.	1.1	9
12	Design and experimental verification of a photoacoustic flow sensor using computational fluid dynamics. Applied Optics, 2018, 57, 802.	0.9	3
13	Metrological quantification of CO in biogas using laser absorption spectroscopy and gas chromatography. Measurement Science and Technology, 2018, 29, 095010.	1.4	13
14	Flow immune photoacoustic sensor for real-time and fast sampling of trace gases. , 2018, , .		0
15	Temperature measurement using frequency comb absorption spectroscopy of CO2. Review of Scientific Instruments, 2017, 88, 053113.	0.6	11
16	Photo-acoustic sensor for detection of oil contamination in compressed air systems. Optics Express, 2017, 25, 1806.	1.7	17
17	Review of Portable and Low-Cost Sensors for the Ambient Air Monitoring of Benzene and Other Volatile Organic Compounds. Sensors, 2017, 17, 1520.	2.1	287
18	Photo-Acoustic Sensor for Detection of Oil Contamination in Compressed Air Systems. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
19	Absolute distance measurement with an unraveled femtosecond frequency comb. , , .		0
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	Zero gas reference standards. Analytical Methods, 2016, 8, 3014-3022.	1.3	5
22	Adsorption of ammonia on treated stainless steel and polymer surfaces. Applied Physics B: Lasers and Optics, 2014, 115, 185-196.	1.1	61
23	Continuous-wave optical parametric oscillator based infrared spectroscopy for sensitive molecular gas sensing. Laser and Photonics Reviews, 2013, 7, 188-206.	4.4	66
24	Nitric oxide in plants: an assessment of the current state of knowledge. AoB PLANTS, 2013, 5, pls052-pls052.	1.2	392
25	The form of nitrogen nutrition affects resistance against Pseudomonas syringae pv. phaseolicola in tobacco. Journal of Experimental Botany, 2013, 64, 553-568.	2.4	116
26	Multi-correlation Fourier transform spectroscopy with the resolved modes of a frequency comb laser. Annalen Der Physik, 2013, 525, 437-442.	0.9	10
27	OCLAS and CRDS-Based CO Quantification as Aimed at in Breath Measurements. International Journal of Spectroscopy, 2012, 2012, 1-10.	1.4	7
28	Many-Wavelength Interferometry with Thousands of Lasers for Absolute Distance Measurement. Physical Review Letters, 2012, 108, 183901.	2.9	125
29	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
30	Cavity-enhanced direct frequency comb spectroscopy. Proceedings of SPIE, 2011, , .	0.8	1
31	Quantitative gas measurements using a versatile OPO-based cavity ringdown spectrometer and the comparison with spectroscopic databases. Applied Physics B: Lasers and Optics, 2010, 100, 383-390.	1.1	30
32	Thermal effects in singly resonant continuous-wave optical parametric oscillators. Applied Physics B: Lasers and Optics, 2009, 94, 411-427.	1.1	70
33	Laser-based systems for trace gas detection in life sciences. Applied Physics B: Lasers and Optics, 2008, 92, 343.	1.1	133
34	Singly resonant cw OPO with simple wavelength tuning. Optics Express, 2008, 16, 11141.	1.7	61
35	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
36	Sensitive Trace Gas Detection in a Jet Expansion Using cw OPO-based Cavity Ringdown Spectroscopy. , 2007, , .		0

#	ARTICLE	IF	CITATIONS
37	Fast-Scanning Fibre-Amplified Diode Laser Pumped cw OPO for Sensitive, Multi-Component Trace Gas Detection. , 2007, , .		0
38	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
39	Nitrogen fixation along a north-south transect in the eastern Atlantic Ocean. <i>Limnology and Oceanography</i> , 2007, 52, 1305-1316.	1.6	51
40	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
41	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
42	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
43	Study of Gas Exchange in Insects by Sensitive Laser Photoacoustic Spectroscopy. <i>Instrumentation Science and Technology</i> , 2006, 34, 85-96.	0.9	1
44	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
45	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