

# Mikls Szakll

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

800  
citations

516710

16  
h-index

526287

27  
g-index

45  
all docs

45  
docs citations

45  
times ranked

966  
citing authors

#	ARTICLE	IF	CITATIONS
1	Shapes and oscillations of falling raindrops â€” A review. Atmospheric Research, 2010, 97, 416-425.	4.1	100
2	The Fifth International Workshop on Ice Nucleation phase 2 (FIN-02): laboratory intercomparison of ice nucleation measurements. Atmospheric Measurement Techniques, 2018, 11, 6231-6257.	3.1	82
3	Photoacoustic system for on-line process monitoring of hydrogen sulfide (H2S) concentration in natural gas streams. Applied Physics B: Lasers and Optics, 2006, 85, 315-321.	2.2	69
4	A Wind Tunnel Study on the Shape, Oscillation, and Internal Circulation of Large Raindrops with Sizes between 2.5 and 7.5 mm. Journals of the Atmospheric Sciences, 2009, 66, 755-765.	1.7	67
5	Drop Shapes and Axis Ratio Distributions: Comparison between 2D Video Disdrometer and Wind-Tunnel Measurements. Journal of Atmospheric and Oceanic Technology, 2009, 26, 1427-1432.	1.3	59
6	A comprehensive characterization of ice nucleation by three different types of cellulose particles immersed in water. Atmospheric Chemistry and Physics, 2019, 19, 4823-4849.	4.9	48
7	A Comprehensive Observational Study of Graupel and Hail Terminal Velocity, Mass Flux, and Kinetic Energy. Journals of the Atmospheric Sciences, 2018, 75, 3861-3885.	1.7	44
8	Thermodynamic correction of particle concentrations measured by underwing probes on fast-flying aircraft. Atmospheric Measurement Techniques, 2016, 9, 5135-5162.	3.1	39
9	Diode laser based photoacoustic humidity sensors. Sensors and Actuators B: Chemical, 2003, 91, 219-226.	7.8	37
10	A high-sensitivity, near-infrared tunable-diode-laser-based photoacoustic water-vapour-detection system for automated operation. Measurement Science and Technology, 1999, 10, 999-1003.	2.6	25
11	On the temperature dependent characteristics of a photoacoustic water vapor detector for airborne application. Infrared Physics and Technology, 2007, 51, 113-121.	2.9	25
12	External Cavity Diode Laser Based Photoacoustic Detection of CO2 at 1.43 Î¼m: The Effect of Molecular Relaxation. Applied Spectroscopy, 2003, 57, 900-905.	2.2	23
13	Evaluation of a Photoacoustic Detector for Water Vapor Measurements under Simulated Tropospheric/Lower Stratospheric Conditions. Environmental Science & Technology, 2001, 35, 4881-4885.	10.0	22
14	Diode Laser Based Photoacoustic Water Vapor Detection System for Atmospheric Research. Applied Spectroscopy, 2004, 58, 792-798.	2.2	20
15	On the pressure dependent sensitivity of a photoacoustic water vapor detector using active laser modulation control. Infrared Physics and Technology, 2006, 48, 192-201.	2.9	20
16	A wind tunnel study of the effects of collision processes on the shape and oscillation for moderate-size raindrops. Atmospheric Research, 2014, 142, 67-78.	4.1	19
17	Airborne measurements of the nitric acid partitioning in persistent contrails. Atmospheric Chemistry and Physics, 2009, 9, 8189-8197.	4.9	18
18	Novel resonance profiling and tracking method for photoacoustic measurements. Applied Physics B: Lasers and Optics, 2009, 94, 691-698.	2.2	13

#	ARTICLE	IF	CITATIONS
19	Shapes and oscillations of raindrops with reduced surface tensions: Measurements at the Mainz vertical wind tunnel. Atmospheric Research, 2013, 119, 38-45.	4.1	12
20	Chemistry of riming: the retention of organic and inorganic atmospheric trace constituents. Atmospheric Chemistry and Physics, 2017, 17, 9717-9732.	4.9	12
21	Wind tunnel study on the size distribution of droplets after collision induced breakup of levitating water drops. Atmospheric Research, 2018, 213, 51-56.	4.1	12
22	The Effect of Turbulence on the Accretional Growth of Graupel. Journals of the Atmospheric Sciences, 2019, 76, 3047-3061.	1.7	6
23	Application of holography and automated image processing for laboratory experiments on mass and fall speed of small cloud ice crystals. Atmospheric Chemistry and Physics, 2020, 20, 14889-14901.	4.9	5
24	Comparative study on immersion freezing utilizing single-droplet levitation methods. Atmospheric Chemistry and Physics, 2021, 21, 3289-3316.	4.9	4
25	A Wind Tunnel Investigation into the Aerodynamics of Lobed Hailstones. Atmosphere, 2020, 11, 494.	2.3	3
26	Twenty Years of Airborne Water Vapor and Total Water Measurements of a Diode Laser Based Photoacoustic Instruments. Frontiers in Physics, 2020, 8, .	2.1	2
27	Vertical Wind Tunnel Experiments and a Theoretical Study on the Microphysics of Melting Low-Density Graupel. Journals of the Atmospheric Sciences, 2022, 79, 1069-1087.	1.7	1
28	Gas-detection instrument based on external-cavity diode lasers and photoacoustic detectors. , 1998, 3423, 238.		0
29	Development and application of external-cavity diode laser systems for photoacoustic gas detection. , 1998, , .		0
30	Possible application areas of a diode-laser-based photoacoustic gas detection method. , 1998, , .		0
31	Optimization of diode-laser-based photoacoustic laser systems for high-sensitivity detection of water vapor, methane, and carbon dioxide. , 1998, , .		0
32	Melting of atmospheric ice particles. , 2022, , 423-471.		0