Pascal Hedelt

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3234354/publications.pdf

Version: 2024-02-01

23 papers	1,098 citations	471509 17 h-index	677142 22 g-index
50 all docs	50 docs citations	50 times ranked	1536 citing authors

#	Article	IF	Citations
1	Evaluating the assimilation of S5P/TROPOMI near real-time SO₂ columns and layer height data into the CAMS integrated forecasting system (CY47R1), based on a case study of the 2019 Raikoke eruption. Geoscientific Model Development, 2022, 15, 971-994.	3.6	9
2	Volcanic SO₂ layer height by TROPOMI/S5P: evaluation against IASI/MetOp and CALIOP/CALIPSO observations. Atmospheric Chemistry and Physics, 2022, 22, 5665-5683.	4.9	5
3	Volcanic SO₂ effective layer height retrieval for the Ozone Monitoring Instrument (OMI) using a machine-learning approach. Atmospheric Measurement Techniques, 2021, 14, 3673-3691.	3.1	5
4	Comparative assessment of TROPOMI and OMI formaldehyde observations and validation against MAX-DOAS network column measurements. Atmospheric Chemistry and Physics, 2021, 21, 12561-12593.	4.9	57
5	Global Monitoring of Volcanic SO2 Degassing Using Sentinel-5 Precursor Tropomi. , 2021, , .		2
6	Inconsistencies in sulfur dioxide emissions from the Canadian oil sands and potential implications. Environmental Research Letters, 2021, 16, 014012.	5.2	11
7	EUNADICS-AV early warning system dedicated to supporting aviation in the case of a crisis from natural airborne hazards and radionuclide clouds. Natural Hazards and Earth System Sciences, 2021, 21, 3367-3405.	3.6	8
8	A sulfur dioxide Covariance-Based Retrieval Algorithm (COBRA): application to TROPOMI reveals new emission sources. Atmospheric Chemistry and Physics, 2021, 21, 16727-16744.	4.9	19
9	Anthropogenic and volcanic point source SO₂ emissions derived from TROPOMI on board Sentinel-5 Precursor: first results. Atmospheric Chemistry and Physics, 2020, 20, 5591-5607.	4.9	39
10	Detectability of atmospheric features of Earth-like planets in the habitable zone around M dwarfs. Astronomy and Astrophysics, 2019, 624, A49.	5.1	84
11	Global monitoring of volcanic SO2 degassing with unprecedented resolution from TROPOMI onboard Sentinel-5 Precursor. Scientific Reports, 2019, 9, 2643.	3.3	126
12	Sulfur dioxide layer height retrieval from Sentinel-5 Precursor/TROPOMI using FP_ILM. Atmospheric Measurement Techniques, 2019, 12, 5503-5517.	3.1	58
13	Transmission spectroscopy with the ACE-FTS infrared spectral atlas of Earth: A model validation and feasibility study. Molecular Astrophysics, 2018, 11, 1-22.	1.6	22
14	Volcanic SO₂ plume height retrieval from UV sensors using a full-physics inverse learning machine algorithm. International Journal of Remote Sensing, 2017, 38, 1-27.	2.9	68
15	Sulfur dioxide retrievals from TROPOMI onboard Sentinel-5 Precursor: algorithm theoretical basis. Atmospheric Measurement Techniques, 2017, 10, 119-153.	3.1	130
16	Overview of the O3M SAF GOME-2 operational atmospheric composition and UV radiation data products and data availability. Atmospheric Measurement Techniques, 2016, 9, 383-407.	3.1	44
17	Anthropogenic sulphur dioxide load over China as observed from different satellite sensors. Atmospheric Environment, 2016, 145, 45-59.	4.1	33
18	Support to Aviation Control Service (SACS): an online service for near-real-time satellite monitoring of volcanic plumes. Natural Hazards and Earth System Sciences, 2014, 14, 1099-1123.	3.6	85

#	Article	IF	Citations
19	GARLIC â€" A general purpose atmospheric radiative transfer line-by-line infrared-microwave code: Implementation and evaluation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 137, 29-50.	2.3	55
20	The Earth as an extrasolar transiting planet. Astronomy and Astrophysics, 2014, 564, A58.	5.1	21
21	Spectral features of Earth-like planets and their detectability at different orbital distances around F, G, and K-type stars. Astronomy and Astrophysics, 2013, 553, A9.	5.1	51
22	Venus transit 2004: Illustrating the capability of exoplanet transmission spectroscopy. Astronomy and Astrophysics, 2011, 533, A136.	5.1	23
23	Potential biosignatures in super-Earth atmospheres. Astronomy and Astrophysics, 2011, 529, A8.	5.1	126