Anton Lopatin

List of Publications by Year in descending order

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22 papers	1,082 citations	623734 14 h-index	752698 20 g-index
25 all docs	25 docs citations	25 times ranked	962 citing authors

#	Article	IF	Citations
1	Extensive characterization of aerosol optical properties and chemical component concentrations: Application of the GRASP/Component approach to long-term AERONET measurements. Science of the Total Environment, 2022, 812, 152553.	8.0	11
2	Properties of aerosol and surface derived from OLCI/Sentinel-3A using GRASP approach: Retrieval development and preliminary validation. Remote Sensing of Environment, 2022, 280, 113142.	11.0	9
3	The Potential of GRASP/GARRLiC Retrievals for Dust Aerosol Model Evaluation: Case Study during the PreTECT Campaign. Remote Sensing, 2021, 13, 873.	4.0	7
4	Synergy processing of diverse ground-based remote sensing and in situ data using the GRASP algorithm: applications to radiometer, lidar and radiosonde observations. Atmospheric Measurement Techniques, 2021, 14, 2575-2614.	3.1	38
5	Spatio-Temporal Variability of Aerosol Components, Their Optical and Microphysical Properties over North China during Winter Haze in 2012, as Derived from POLDER/PARASOL Satellite Observations. Remote Sensing, 2021, 13, 2682.	4.0	4
6	Vertical assessment of the mineral dust optical and microphysical properties as retrieved from the synergy between polarized micro-pulse lidar and sun/sky photometer observations using GRASP code. Atmospheric Research, 2021, 264, 105818.	4.1	5
7	A Comprehensive Description of Multi-Term LSM for Applying Multiple a Priori Constraints in Problems of Atmospheric Remote Sensing: GRASP Algorithm, Concept, and Applications. Frontiers in Remote Sensing, 2021, 2, .	3.5	54
8	Aerosol vertical distribution and interactions with land/sea breezes over the eastern coast of the Red Sea from lidar data and high-resolution WRF-Chem simulations. Atmospheric Chemistry and Physics, 2020, 20, 16089-16116.	4.9	24
9	Combined use of Mieâ€“Raman and fluorescence lidar observations for improving aerosol characterization: feasibility experiment. Atmospheric Measurement Techniques, 2020, 13, 6691-6701.	3.1	20
10	Validation of GRASP algorithm product from POLDER/PARASOL data and assessment of multi-angular polarimetry potential for aerosol monitoring. Earth System Science Data, 2020, 12, 3573-3620.	9.9	90
11	Synergetic Observations by Ground-Based and Space Lidar Systems and Aeronet Sun-Radiometers: A Step to Advanced Regional Monitoring of Large Scale Aerosol Changes. EPJ Web of Conferences, 2020, 237, 02035.	0.3	1
12	Retrieval of aerosol components directly from satellite and ground-based measurements. Atmospheric Chemistry and Physics, 2019, 19, 13409-13443.	4.9	82
13	Long-range-transported Canadian smoke plumes in the lower stratosphere over northern France. Atmospheric Chemistry and Physics, 2019, 19, 1173-1193.	4.9	86
14	Constraining global aerosol emissions using POLDER/PARASOL satellite remote sensing observations. Atmospheric Chemistry and Physics, 2019, 19, 14585-14606.	4.9	42
15	Different strategies to retrieve aerosol properties at night-time with the GRASP algorithm. Atmospheric Chemistry and Physics, 2019, 19, 14149-14171.	4.9	29
16	Polarimetric remote sensing of atmospheric aerosols: Instruments, methodologies, results, and perspectives. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 224, 474-511.	2.3	224
17	GARRLiC and LIRIC: strengths and limitations for the characterization of dust and marine particles along with their mixtures. Atmospheric Measurement Techniques, 2017, 10, 4995-5016.	3.1	42
18	Comparative assessment of GRASP algorithm for a dust event over Granada (Spain) during ChArMEx-ADRIMEDÂ2013 campaign. Atmospheric Measurement Techniques, 2017, 10, 4439-4457.	3.1	46

#	Article	IF	Citations
19	Comparison of aerosol properties retrieved using GARRLiC, LIRIC, and Raman algorithms applied to multi-wavelength lidar and sun/sky-photometer data. Atmospheric Measurement Techniques, 2016, 9, 3391-3405.	3.1	37
20	Lidar-Radiometer Inversion Code (LIRIC) for the retrieval of vertical aerosol properties from combined lidar/radiometer data: development and distribution in EARLINET. Atmospheric Measurement Techniques, 2016, 9, 1181-1205.	3.1	92
21	Application of the Garrlic Algorithm for the Characterization of Dust and Marine Particles Utilizing the Lidar-Sunphotometer Synergy. EPJ Web of Conferences, 2016, 119, 23021.	0.3	2
22	GRASP: a versatile algorithm for characterizing the atmosphere. SPIE Newsroom, 0, , .	0.1	134