

# Sergio Tomas

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

406  
citations

1040056

9  
h-index

996975

15  
g-index

27  
all docs

27  
docs citations

27  
times ranked

685  
citing authors

#	ARTICLE	IF	CITATIONS
1	Seasonal variability of aerosol optical properties observed by means of a Raman lidar at an EARLINET site over Northeastern Spain. Atmospheric Chemistry and Physics, 2011, 11, 175-190.	4.9	65
2	Monitoring of the Eyjafjallajökull volcanic aerosol plume over the Iberian Peninsula by means of four EARLINET lidar stations. Atmospheric Chemistry and Physics, 2012, 12, 3115-3130.	4.9	64
3	EARLINET instrument intercomparison campaigns: overview on strategy and results. Atmospheric Measurement Techniques, 2016, 9, 1001-1023.	3.1	58
4	Sensitivity of PAZ LEO Polarimetric GNSS Radio-Occultation Experiment to Precipitation Events. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 190-206.	6.3	38
5	Atmospheric Boundary Layer Height Monitoring Using a Kalman Filter and Backscatter Lidar Returns. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 4717-4728.	6.3	34
6	Atmospheric polarimetric effects on GNSS radio occultations: the ROHP-PAZ field campaign. Atmospheric Chemistry and Physics, 2016, 16, 635-649.	4.9	30
7	Sensing Heavy Precipitation With GNSS Polarimetric Radio Occultations. Geophysical Research Letters, 2019, 46, 1024-1031.	4.0	26
8	Lost writing uncovered by laser two-photon fluorescence provides a terminus post quem for Roman colonization of Hispania Citerior. Journal of Archaeological Science, 2007, 34, 1594-1600.	2.4	20
9	Six-channel polychromator design and implementation for the UPC elastic/Raman lidar. , 2011, , .		19
10	Probability of intense precipitation from polarimetric GNSS radio occultation observations. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 206-220.	2.7	15
11	Separability of Systematic Effects in Polarimetric GNSS Radio Occultations for Precipitation Sensing. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 4633-4649.	6.3	6
12	Power budget and performance assessment for the RSLAB multispectral elastic/Raman lidar system. , 2012, , .		5
13	Piece-wise variance method for signal-to-noise ratio estimation in elastic/Raman lidar signals. , 2007, , .		4
14	Wind retrieval from multiangle backscatter lidar profiles through anisotropic aerosol structures. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7758-7776.	3.3	3
15	Engineering of a water-vapour, Raman, elastic-backscatter Lidar at the Technical University of Catalonia (Spain). , 2006, 6367, 214.		2
16	Intercomparison of spanish advanced lidars in the framework of EARLINET. , 2007, , .		2
17	Aerosol stratification characterization of an astronomical site by means of a backscatter lidar at the Roque de los Muchachos Observatory. Proceedings of SPIE, 2009, , .	0.8	2
18	Atmospheric boundary-layer height estimation by adaptive Kalman filtering of lidar data. Proceedings of SPIE, 2010, , .	0.8	2

#	ARTICLE	IF	CITATIONS
19	Multi-wavelength aerosol LIDAR signal pre-processing: practical considerations. IOP Conference Series: Earth and Environmental Science, 2015, 28, 012013.	0.3	2
20	Results of site testing using an aerosol, backscatter lidar at the Roque de los Muchachos Observatory. Monthly Notices of the Royal Astronomical Society, 2010, , .	4.4	1
21	Polarimetric Gns Radio-Occultations Aboard Paz: Commissioning Phase and Preliminary Results. , 2018, , .		1
22	Morphological tools for range-interval segmentation of elastic lidar signals. , 2007, , .		0
23	Wind speed and direction measurements with a backscatter lidar using the auto-correlation contour analysis. , 2011, , .		0
24	Wind speed and turbulence estimation with a backscatter lidar at a single line of sight. , 2011, , .		0