Marc S Sarazin

List of Publications by Year
in descending order

94 papers	1,234 citations	516710 16 h-index	454955 30 g-index
94 all docs	94 docs citations	94 times ranked	661 citing authors

#	Article	IF	Citations
1	Determination of the profile of atmospheric optical turbulence strength from SLODAR data. Monthly Notices of the Royal Astronomical Society, 2006, 369, 835-845.	4.4	116
2	MASS: a monitor of the vertical turbulence distribution. , 2003, , .		90
3	Isoplanatism in a multiconjugate adaptive optics system. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2000, 17, 1819.	1.5	75
4	Singing and social inclusion. Frontiers in Psychology, 2014, 5, 803.	2.1	70
5	Optical turbulence profiling with Stereo-SCIDAR for VLT and ELT. Monthly Notices of the Royal Astronomical Society, 2018, 478, 825-834.	4.4	61
6	The astroclimate of Maidanak Observatory in Uzbekistan. Astronomy and Astrophysics, 2000, 145, 293-304.	2.1	60
7	Optical parameters relevant for High Angular Resolution at Paranal from GSM instrument and surface layer contribution. Astronomy and Astrophysics, 2000, 144, 39-44.	2.1	53
8	European Extremely Large Telescope Site Characterization I: Overview. Publications of the Astronomical Society of the Pacific, 2011, 123, 1334-1346.	3.1	52
9	New challenges for adaptive optics: extremely large telescopes. Monthly Notices of the Royal Astronomical Society, 2000, 317, 535-544.	4.4	48
10	Multi-instrument measurement campaign at Paranal in 2007. Astronomy and Astrophysics, 2010, 524, A73.	5.1	40
11	DYNAMICAL RECURRENT NEURAL NETWORKS â€" TOWARDS ENVIRONMENTAL TIME SERIES PREDICTION. International Journal of Neural Systems, 1995, 06, 145-170.	5.2	37
12	Atmospheric turbulence forecasting with a general circulation model for Cerro Paranal. Monthly Notices of the Royal Astronomical Society, 2018, 480, 1278-1299.	4.4	35
13	The Durham/ESO SLODAR optical turbulence profiler. Monthly Notices of the Royal Astronomical Society, 2009, 399, 2129-2138.	4.4	26
14	Testing turbulence model at metric scales with mid-infrared VISIR images at the VLT. Monthly Notices of the Royal Astronomical Society, 2007, 378, 701-708.	4.4	24
15	European Extremely Large Telescope Site Characterization. II. High Angular Resolution Parameters. Publications of the Astronomical Society of the Pacific, 2012, 124, 868-884.	3.1	22
16	Can student interdependence be experienced negatively in collective music education programmes? A contextual approach. London Review of Education, 0, 15, .	1.8	21
17	The Optical/Infrared Astronomical Quality of High Atacama Sites. I. Preliminary Results of Optical Seeing. Publications of the Astronomical Society of the Pacific, 2001, 113, 789-802.	3.1	20
18	Profiling the surface layer of optical turbulence with SLODAR. Monthly Notices of the Royal Astronomical Society, 2010, , no-no.	4.4	19

#	Article	IF	Citations
19	Weather at selected astronomical sites â€“ an overview of five atmospheric parameters. Monthly Notices of the Royal Astronomical Society, 2019, 482, 4941-4950.	4.4	19
20	Atmospheric image blur with finite outer scale or partial adaptive correction. Astronomy and Astrophysics, 2010, 516, A90.	5.1	16
21	Precipitable Water Vapor, Temperature, and Wind Statistics At Sites Suitable for mm and Submm Wavelength Astronomy in Northern Chile. Publications of the Astronomical Society of the Pacific, 2019, 131, 045001.	3.1	16
22	High-altitude wind velocity at Oukaimeden observatory. Monthly Notices of the Royal Astronomical Society, 2009, 398, 862-872.	4.4	14
23	Dynamical recurrent neural networks and pattern recognition methods for time series prediction: Application to seeing and temperature forecasting in the context of ESO's VLT astronomical weather station. New Astronomy Reviews, 1994, 38, 357-374.	0.3	13
24	Comparison of the scintillation noise above different observatories measured with MASS instruments. Astronomy and Astrophysics, 2012, 546, A41.	5.1	13
25	Optical simulation for a fixed spherical solar collector. Applied Optics, 1979, 18, 3081.	2.1	12
26	The eye of the beholder: designing the OWL. , 2003, , .		12
27	European Extremely Large Telescope Site Characterization III: Ground Meteorology. Publications of the Astronomical Society of the Pacific, 2014, 126, 412-431.	3.1	12
28	Development of a portable SLODAR turbulence profiler. , 2004, , .		11
29	Using MASS for AO simulations: a note on the comparison between MASS and Generalized SCIDAR techniques. Monthly Notices of the Royal Astronomical Society, 2016, 455, 2377-2386.	4.4	10
30	<title>Automated seeing monitoring for queue-scheduled astronomical observations</title>. , 1997, , .		9
31	Remote sensing of precipitable water vapour and cloud cover for site selection of the European Extremely Large Telescope (E-ELT) using MERIS. , 2007, , .		9
32	Surface layer characterization at Paranal Observatory. Proceedings of SPIE, 2010, , .	0.8	9
33	<title>Forecasting precipitable water vapor and cirrus cloud cover for astronomical observatories: satellite image processing guided by synoptic model dissemination data</title>. , 2001, 4168, 317.		8
34	Atmospheric and internal turbulence measured on the Very Large Telescope Interferometer with VINCI. , 2003, 4838, 1115.		8
35	Correlation between TOMS aerosol index and astronomical extinction. , 2004, , .		8
36	Climate-based site selection for a Very Large Telescope using GIS techniques. Meteorological Applications, 2005, 12, 77-81.	2.1	8

#	Article	IF	Citations
37	Support for site testing of the European Extremely Large Telescope: precipitable water vapor over Paranal. , 2010, , .		8
38	Characterization of the ground layer of turbulence at Paranal using a robotic SLODAR system. Monthly Notices of the Royal Astronomical Society, 2020, 492, 934-949.	4.4	8
39	Combining turbulence profiles from MASS and SLODAR: a statistical study of the evolution of the seeing at Paranal. , 2008, , .		7
40	Comparing radial velocities of atmospheric lines with radiosonde measurements. Monthly Notices of the Royal Astronomical Society, 2012, 420, 2874-2883.	4.4	7
41	Representative optical turbulence profiles for ESO Paranal by hierarchical clustering. Monthly Notices of the Royal Astronomical Society, 2018, , .	4.4	7
42	Nowcasting astronomical seeing - A study of ESO La Silla and Paranal. Publications of the Astronomical Society of the Pacific, 1993, 105, 932.	3.1	7
43	<title>New challenges for adaptive optics: the OWL 100-m telescope</title>. , 2000, , .		6
44	<title>VLT astronomical site monitor: control, automation, and data flow</title>. , 2000, 4009, 338.		6
45	Operational concept of the VLT's adaptive optics facility and its instruments. Proceedings of SPIE, 2012, , .	0.8	6
46	Site selection for the 3.4Âm optical telescope of the Iranian National Observatory. Monthly Notices of the Royal Astronomical Society, 2019, 486, 4226-4232.	4.4	6
47	Wavefront outer-scale monitoring at La Silla. , 1998, 3353, 1155.		5
48	Method of estimating time scales of atmospheric piston and its application at Dome C (Antarctica). Applied Optics, 2007, 46, 4754.	2.1	5
49	E-ELT site characterization status. Proceedings of SPIE, 2008, , .	0.8	5
50	Nowcasting Astronomical Seeing: Towards an Operational Approach. Publications of the Astronomical Society of the Pacific, 1995, 107, 702.	3.1	5
51	FASS: a turbulence profiler based on a fast, low-noise camera. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	5
52	Eso-Vlt Instrumentation For Site Evluation In Northern Chile. , 1986, , .		4
53	<title>Survey of airborne particle density and the aging of mirror coatings in the open air at the VLT Observatory</title>. , 1994, , .		4
54	Perturbations to astronomical observations at the European Southern Observatory's very large telescope site in Paranal, Chile: analyses of climatological causes. Theoretical and Applied Climatology, 2002, 73, 133-150.	2.8	4

#	Article	IF	Citations
55	New tools for a global survey of potential sites for the future giant telescopes. , 2003, 4840, 291.		4
56	Site selection for extremely large telescopes using the FriOWL software and global re-analysis climate data. , 2008, , .		4
57	Support for site testing of the European Extremely Large Telescope: precipitable water vapor over La Silla. Proceedings of SPIE, 2010, , .	0.8	4
58	Active optics Shack-Hartmann sensor: using spot sizes to measure the seeing at the focal plane of a telescope. Monthly Notices of the Royal Astronomical Society, 2012, 421, 3019-3026.	4.4	4
59	MOSP: Monitor of Outer Scale profile. , 2010, , .		4
60	Site selection for OWL using past, present, and future climate information. , 2004, , .		3
61	Site considerations for ELTs. Proceedings of the International Astronomical Union, 2005, 1, 34-39.	0.0	3
62	SLODAR turbulence monitors for real-time support of astronomical adaptive optics. , 2008, , .		3
63	Fuzzy astronomical seeing nowcasts with a dynamical and recurrent connectionist network. Neurocomputing, 1996, 13, 359-373.	5.9	2
64	San Pedro MÃ¡rtir: astronomical site evaluation. , 2004, , .		2
65	Generalized SCIDAR measurements at La Silla Observatory. , 2006, 6267, 578.		2
66	Aerosol columnar characterization in Morocco: ELT prospect. New Astronomy, 2008, 13, 41-52.	1.8	2
67	Measuring and forecasting of PWV above La Silla, APEX and Paranal Observatories. , 2010, , .		2
68	Experimental characterization of the turbulence inside the dome and in the surface layer. , 2012, , .		2
69	Comparison of vision at mounts Maidanak, La Silla, and Paranal. , 1999, , .		2
70	Astronomical Site Testing in Northwest of Argentina. Astrophysics and Space Science, 2004, 290, 409-413.	1.4	1
71	Site selection for the European ELT. , 2004, 5382, 607.		1
72	The use of EUMETSAT cloud mask product for astronomical site testing. Proceedings of SPIE, 2010, , .	0.8	1

#	Article	IF	Citations
73	Review on atmospheric turbulence monitoring. , 2014, , .		1
74	LOTUCE2: a dome-seeing instrument for the E-ELT. , 2014, , .		1
75	The ESO astronomical site monitor upgrade. , 2016, , .		1
76	E-ELT turbulence profiling with stereo-SCIDAR at Paranal. Proceedings of SPIE, 2016, , .	0.8	1
77	THE PARANAL SURFACE LAYER. , 2009, , .		1
78	Preliminary results from the Stereo-SCIDAR at the VLT Observatory: extraction of reference atmospheric turbulence profiles for E-ELT adaptive optics instrument performance simulations. , 2017, , .		1
79	Representative atmospheric turbulence profiles for ESO Paranal. , 2018, , .		1
80	Method of estimating time scales of the atmospheric piston and its application at Dome C (Antarctica). Applied Optics, 2006, 45, 5709.	2.1	0
81	Temperature and humidity environmental conditions in the VLTI. , 2006, , .		0
82	Choosing Dome C, Antarctic Plateau as Future Astronomical Observatory. EAS Publications Series, 2007, 25, 69-72.	0.3	0
83	Aerosol characterization of Morocco with AERONET and intercomparison with satellite data: TOMS, MODIS and MISR. Proceedings of SPIE, 2007, , .	0.8	0
84	Meteorological study of Aklim site in Morocco. Proceedings of SPIE, 2008, , .	0.8	0
85	Atmospheric water vapour content over La Silla Paranal Observatory. Proceedings of the International Astronomical Union, 2009, 5, 537-537.	0.0	0
86	Assessing VLT-UT science image quality from active optics Shack-Hartmann spot patterns. , 2014, , .		0
87	Real-time Strehl and image quality performance estimator at Paranal Observatory. , 2014, , .		0
88	Photometric study of the Paranal observatory using MASS database. , 2014, , .		0
89	FASS: the full aperture seeing sensor. , 2016, , .		0
90	VLT Laser Guide Star Monitoring Facility: a feasibility study. , 2003, , .		0

#	Article	IF	Citations
91	WAVEFRONT CHARACTERIZATION CAMPAIGN AT PARANAL USING GSM, MOSP, DIMM-MASS, LUSCI AND SCIDAR. , 2009, , .		0
92	Monitoring of the atmospheric turbulence profiles for the specification of ELTs adaptive optics systems. , 2010, , .		0
93	Improvements to MASS turbulence profile estimation at Paranal. , 2018, , .		0
94	Comparison between scintillation-based atmospheric turbulence profiling instruments. , 2019, , .		0