Andreas Lagg

List of Publications by Year
in descending order

68 papers	2,757 citations	159585 30 h-index	175258 52 g-index
68 all docs	68 docs citations	68 times ranked	1622 citing authors

#	Article	IF	Citations
1	CRISP Spectropolarimetric Imaging of Penumbral Fine Structure. Astrophysical Journal, 2008, 689, L69-L72.	4.5	350
2	Dynamics of Saturn's Magnetosphere from MIMI During Cassini's Orbital Insertion. Science, 2005, 307, 1270-1273.	12.6	166
3	Three-dimensional magnetic field topology in a region of solar coronal heating. Nature, 2003, 425, 692-695.	27.8	151
4	The 1.5 meter solar telescope GREGOR. Astronomische Nachrichten, 2012, 333, 796-809.	1.2	131
5	FULLY RESOLVED QUIET-SUN MAGNETIC FLUX TUBE OBSERVED WITH THE SUNRISE/IMAX INSTRUMENT. Astrophysical Journal Letters, 2010, 723, L164-L168.	8.3	97
6	Particle bursts in the Jovian magnetosphere: Evidence for a near-Jupiter neutral line. Geophysical Research Letters, 2002, 29, 42-1.	4.0	95
7	GRIS: The GREGOR Infrared Spectrograph. Astronomische Nachrichten, 2012, 333, 872-879.	1.2	93
8	Energetic particle bursts in the predawn Jovian magnetotail. Geophysical Research Letters, 1998, 25, 1249-1252.	4.0	91
9	Coupling from the Photosphere to the Chromosphere andÂtheÂCorona. Space Science Reviews, 2009, 144, 317-350.	8.1	84
10	Quasi-periodic modulations of the Jovian magnetotail. Geophysical Research Letters, 1998, 25, 1253-1256.	4.0	80
11	The Second Flight of the Sunrise Balloon-borne Solar Observatory: Overview of Instrument Updates, the Flight, the Data, and First Results. Astrophysical Journal, Supplement Series, 2017, 229, 2.	7.7	80
12	The Nature of Running Penumbral Waves Revealed. Astrophysical Journal, 2007, 671, 1005-1012.	4.5	79
13	Structure of sunspot penumbral filaments: a remarkable uniformity of properties. Astronomy and Astrophysics, 2013, 557, A25.	5.1	73
14	Vigorous convection in a sunspot granular light bridge. Astronomy and Astrophysics, 2014, 568, A60.	5.1	61
15	Enceladus' Varying Imprint on the Magnetosphere of Saturn. Science, 2006, 311, 1412-1415.	12.6	57
16	Applications of proton transfer reactions to gas analysis. International Journal of Mass Spectrometry and Ion Processes, 1994, 134, 55-66.	1.8	55
17	The Dust Halo of Saturn's Largest Icy Moon, Rhea. Science, 2008, 319, 1380-1384.	12.6	53
18	MAGNETIC FIELDS OF AN ACTIVE REGION FILAMENT FROM FULL STOKES ANALYSIS OF Si I 1082.7 nm AND He I 1083.0 nm. Astrophysical Journal, 2012, 749, 138.	4.5	48

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19	Methanol in Human Breath. Alcoholism: Clinical and Experimental Research, 1995, 19, 1147-1150.	2.4	47
20	Measurements of Photospheric and Chromospheric Magnetic Fields. Space Science Reviews, 2017, 210, 37-76.	8.1	45
21	A nebula of gases from Io surrounding Jupiter. Nature, 2002, 415, 994-996.	27.8	44
22	Extended Subadiabatic Layer in Simulations of Overshooting Convection. Astrophysical Journal Letters, 2017, 845, L23.	8.3	44
23	Energetic particles in Saturn's magnetosphere during the Cassini nominal mission (July 2004â€“July) Tj ETQq1 1 0.784314 rgBT /Over	1.7	43
24	Plasma sheet dynamics in the Jovian magnetotail: Signatures For substorm-like processes ?. Geophysical Research Letters, 1999, 26, 2137-2140.	4.0	42
25	Anti-planetward auroral electron beams at Saturn. Nature, 2006, 439, 699-702.	27.8	40
26	Stratification of Sunspot Umbral Dots from Inversion of Stokes Profiles Recorded byHinode. Astrophysical Journal, 2008, 678, L157-L160.	4.5	40
27	Depth-dependent global properties of a sunspot observed by Hinode using the Solar Optical Telescope/Spectropolarimeter. Astronomy and Astrophysics, 2015, 583, A119.	5.1	35
28	Solar magnetism eXplorer (SolmeX). Experimental Astronomy, 2012, 33, 271-303.	3.7	34
29	How To Use Magnetic Field Information For Coronal Loop Identification. Solar Physics, 2005, 228, 67-78.	2.5	31
30	The calibration of the Cassiniâ€“Huygens CAPS Electron Spectrometer. Planetary and Space Science, 2010, 58, 427-436.	1.7	31
31	The vertical thickness of Jupiter's Europa gas torus from charged particle measurements. Geophysical Research Letters, 2016, 43, 9425-9433.	4.0	27
32	Oscillations on Width and Intensity of Slender Ca ii H Fibrils from Sunrise/SuFI. Astrophysical Journal, Supplement Series, 2017, 229, 7.	7.7	25
33	A summary of observational records on periodicities above the rotational period in the Jovian magnetosphere. Annales Geophysicae, 2009, 27, 2565-2573.	1.6	24
34	Detection of the Strongest Magnetic Field in a Sunspot Light Bridge. Astrophysical Journal, 2020, 895, 129.	4.5	24
35	Changes of the energetic particles characteristics in the inner part of the Jovian magnetosphere: a topological study. Planetary and Space Science, 2004, 52, 491-498.	1.7	23
36	Determination of the neutral number density in the Io torus from Galileo-EPD measurements. Geophysical Research Letters, 1998, 25, 4039-4042.	4.0	22

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37	Energetic electron signatures of Saturn's smaller moons: Evidence of an arc of material at Methone. Icarus, 2008, 193, 455-464.	2.5	22
38	Local time asymmetry of energetic ion anisotropies in the Jovian magnetosphere. Planetary and Space Science, 2001, 49, 283-289.	1.7	21
39	Recent advances in measuring chromospheric magnetic fields in the He i 10830Ã... line. Advances in Space Research, 2007, 39, 1734-1740.	2.6	20
40	Jovian plasma sheet morphology: particle and field observations by the Galileo spacecraft. Planetary and Space Science, 2005, 53, 681-692.	1.7	19
41	Bihelical Spectrum of Solar Magnetic Helicity and Its Evolution. Astrophysical Journal, 2018, 863, 182.	4.5	18
42	Vertical magnetic field gradient in the photospheric layers of sunspots. Astronomy and Astrophysics, 2017, 599, A35.	5.1	17
43	Three-dimensional magnetic structure of a sunspot: Comparison of the photosphere and upper chromosphere. Astronomy and Astrophysics, 2017, 604, A98.	5.1	17
44	USING REALISTIC MHD SIMULATIONS FOR THE MODELING AND INTERPRETATION OF QUIET-SUN OBSERVATIONS WITH THESOLAR DYNAMICS OBSERVATORYHELIOSEISMIC AND MAGNETIC IMAGER. Astrophysical Journal, 2015, 808, 59.	4.5	15
45	Morphological Properties of Slender Ca H Fibrils Observed by Sunrise II. Astrophysical Journal, Supplement Series, 2017, 229, 6.	7.7	15
46	The structure and dynamics of the Jovian energetic particle distribution. Advances in Space Research, 2004, 33, 2030-2038.	2.6	14
47	Evershed and Counter-Evershed Flows in Sunspot MHD Simulations. Astrophysical Journal, 2018, 852, 66.	4.5	14
48	GREGOR solar telescope: Design and status. Astronomische Nachrichten, 2010, 331, 624-627.	1.2	13
49	Long-term dynamics of the inner Jovian electron radiation belts. Advances in Space Research, 2004, 33, 2039-2044.	2.6	12
50	Fitting peculiar spectral profiles in He <scp>I</scp> 10830 Ã... absorption features. Astronomische Nachrichten, 2016, 337, 1057-1063.	1.2	12
51	Spectropolarimetric observations of an arch filament system with the GREGOR solar telescope. Astronomische Nachrichten, 2016, 337, 1050-1056.	1.2	9
52	A retrospective of the GREGOR solar telescope in scientific literature. Astronomische Nachrichten, 2012, 333, 810-815.	1.2	8
53	Moving Magnetic Features Around a Pore. Astrophysical Journal, Supplement Series, 2017, 229, 13.	7.7	7
54	PMI: The Photospheric Magnetic Field Imager. Journal of Space Weather and Space Climate, 2020, 10, 54.	3.3	7

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55	Sunrise Chromospheric Infrared SpectroPolarimeter (SCIP) for sunrise III: system design and capability. , 2020, , .		7
56	Hot plasma heavy ion abundance in the inner Jovian magnetosphere (<10 Rj). Planetary and Space Science, 2001, 49, 275-282.	1.7	5
57	SOPHISM: An End-to-end Software Instrument Simulator. Astrophysical Journal, Supplement Series, 2018, 237, 35.	7.7	5
58	The SUNRISE UV Spectropolarimeter and imager for SUNRISE III. , 2020, , .		5
59	Solar Particle Acceleration Radiation and Kinetics (SPARK). Experimental Astronomy, 2012, 33, 237-269.	3.7	4
60	The Sun at high resolution: first results from the <scp>Sunrise</scp> mission. Proceedings of the International Astronomical Union, 2010, 6, 226-232.	0.0	2
61	How rare are counter Evershed flows?. Astronomy and Astrophysics, 2021, 651, L1.	5.1	2
62	Flow and magnetic field properties in the trailing sunspots of active region NOAA 12396. Astronomische Nachrichten, 2016, 337, 1090-1098.	1.2	1
63	Measurements of Photospheric and Chromospheric Magnetic Fields. Space Sciences Series of ISSI, 2015, , 37-76.	0.0	1
64	Temporal evolution of chromospheric downflows. Proceedings of the International Astronomical Union, 2004, 2004, 279-280.	0.0	0
65	Zeeman Broadening in Cool Stars. , 2009, , .		0
66	Chromospheric magnetic fields of an active region filament. EAS Publications Series, 2012, 55, 163-168.	0.3	0
67	Flows along arch filaments observed in the GRIS â€˜very fast spectroscopic modeâ€™. Proceedings of the International Astronomical Union, 2016, 12, 28-33.	0.0	0
68	Fast downflows in a chromospheric filament. Proceedings of the International Astronomical Union, 2019, 15, 454-457.	0.0	0