

# Andreas Lagg

## List of Publications by Year in descending order

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Version: 2024-02-01

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	How rare are counter Evershed flows?. <i>Astronomy and Astrophysics</i> , 2021, 651, L1.	5.1	2
2	Detection of the Strongest Magnetic Field in a Sunspot Light Bridge. <i>Astrophysical Journal</i> , 2020, 895, 129.	4.5	24
3	PMI: The Photospheric Magnetic Field Imager. <i>Journal of Space Weather and Space Climate</i> , 2020, 10, 54.	3.3	7
4	The SUNRISE UV Spectropolarimeter and imager for SUNRISE III. , 2020, , .		5
5	Sunrise Chromospheric Infrared SpectroPolarimeter (SCIP) for sunrise III: system design and capability. , 2020, , .		7
6	Fast downflows in a chromospheric filament. <i>Proceedings of the International Astronomical Union</i> , 2019, 15, 454-457.	0.0	0
7	Evershed and Counter-Evershed Flows in Sunspot MHD Simulations. <i>Astrophysical Journal</i> , 2018, 852, 66.	4.5	14
8	Bihelical Spectrum of Solar Magnetic Helicity and Its Evolution. <i>Astrophysical Journal</i> , 2018, 863, 182.	4.5	18
9	SOPHISM: An End-to-end Software Instrument Simulator. <i>Astrophysical Journal, Supplement Series</i> , 2018, 237, 35.	7.7	5
10	Measurements of Photospheric and Chromospheric Magnetic Fields. <i>Space Science Reviews</i> , 2017, 210, 37-76.	8.1	45
11	Vertical magnetic field gradient in the photospheric layers of sunspots. <i>Astronomy and Astrophysics</i> , 2017, 599, A35.	5.1	17
12	The Second Flight of the Sunrise Balloon-borne Solar Observatory: Overview of Instrument Updates, the Flight, the Data, and First Results. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 2.	7.7	80
13	Three-dimensional magnetic structure of a sunspot: Comparison of the photosphere and upper chromosphere. <i>Astronomy and Astrophysics</i> , 2017, 604, A98.	5.1	17
14	Moving Magnetic Features Around a Pore. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 13.	7.7	7
15	Oscillations on Width and Intensity of Slender Ca II H Fibrils from Sunrise/SuFI. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 7.	7.7	25
16	Extended Subadiabatic Layer in Simulations of Overshooting Convection. <i>Astrophysical Journal Letters</i> , 2017, 845, L23.	8.3	44
17	Morphological Properties of Slender Ca II H Fibrils Observed by Sunrise II. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 6.	7.7	15
18	Fitting peculiar spectral profiles in He I 10830 Å... absorption features. <i>Astronomische Nachrichten</i> , 2016, 337, 1057-1063.	1.2	12

#	ARTICLE	IF	CITATIONS
19	Spectropolarimetric observations of an arch filament system with the GREGOR solar telescope. <i>Astronomische Nachrichten</i> , 2016, 337, 1050-1056.	1.2	9
20	Flow and magnetic field properties in the trailing sunspots of active region NOAA 12396. <i>Astronomische Nachrichten</i> , 2016, 337, 1090-1098.	1.2	1
21	The vertical thickness of Jupiter's Europa gas torus from charged particle measurements. <i>Geophysical Research Letters</i> , 2016, 43, 9425-9433.	4.0	27
22	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
23	Depth-dependent global properties of a sunspot observed by Hinode using the Solar Optical Telescope/Spectropolarimeter. <i>Astronomy and Astrophysics</i> , 2015, 583, A119.	5.1	35
24	USING REALISTIC MHD SIMULATIONS FOR THE MODELING AND INTERPRETATION OF QUIET-SUN OBSERVATIONS WITH THE <i>SOLAR DYNAMICS OBSERVATORY</i> HELIOSEISMIC AND MAGNETIC IMAGER. <i>Astrophysical Journal</i> , 2015, 808, 59.	4.5	15
25	Measurements of Photospheric and Chromospheric Magnetic Fields. <i>Space Sciences Series of ISSI</i> , 2015, , 37-76.	0.0	1
26	Vigorous convection in a sunspot granular light bridge. <i>Astronomy and Astrophysics</i> , 2014, 568, A60.	5.1	61
27	Structure of sunspot penumbral filaments: a remarkable uniformity of properties. <i>Astronomy and Astrophysics</i> , 2013, 557, A25.	5.1	73
28	Chromospheric magnetic fields of an active region filament. <i>EAS Publications Series</i> , 2012, 55, 163-168.	0.3	0
29	Solar Particle Acceleration Radiation and Kinetics (SPARK). <i>Experimental Astronomy</i> , 2012, 33, 237-269.	3.7	4
30	The 1.5 meter solar telescope GREGOR. <i>Astronomische Nachrichten</i> , 2012, 333, 796-809.	1.2	131
31	A retrospective of the GREGOR solar telescope in scientific literature. <i>Astronomische Nachrichten</i> , 2012, 333, 810-815.	1.2	8
32	GRIS: The GREGOR Infrared Spectrograph. <i>Astronomische Nachrichten</i> , 2012, 333, 872-879.	1.2	93
33	MAGNETIC FIELDS OF AN ACTIVE REGION FILAMENT FROM FULL STOKES ANALYSIS OF Si I 1082.7 nm AND He I 1083.0 nm. <i>Astrophysical Journal</i> , 2012, 749, 138.	4.5	48
34	Solar magnetism eXplorer (SolmeX). <i>Experimental Astronomy</i> , 2012, 33, 271-303.	3.7	34
35	FULLY RESOLVED QUIET-SUN MAGNETIC FLUX TUBE OBSERVED WITH THE SUNRISE/IMAX INSTRUMENT. <i>Astrophysical Journal Letters</i> , 2010, 723, L164-L168.	8.3	97
36	The Sun at high resolution: first results from the <sc>Sunrise</sc> mission. Proceedings of the International Astronomical Union, 2010, 6, 226-232.	0.0	2

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37	GREGOR solar telescope: Design and status. <i>Astronomische Nachrichten</i> , 2010, 331, 624-627.	1.2	13
38	The calibration of the Cassini-Huygens CAPS Electron Spectrometer. <i>Planetary and Space Science</i> , 2010, 58, 427-436.	1.7	31
39	A summary of observational records on periodicities above the rotational period in the Jovian magnetosphere. <i>Annales Geophysicae</i> , 2009, 27, 2565-2573.	1.6	24
40	Zeeman Broadening in Cool Stars. , 2009, , .		0
41	Coupling from the Photosphere to the Chromosphere and the Corona. <i>Space Science Reviews</i> , 2009, 144, 317-350.	8.1	84
42	Energetic particles in Saturn's magnetosphere during the Cassini nominal mission (July 2004-July 2008). <i>Journal of Geophysical Research</i> , 2009, 114, A08207.	1.7	48
43	Energetic electron signatures of Saturn's smaller moons: Evidence of an arc of material at Methone. <i>Icarus</i> , 2008, 193, 455-464.	2.5	22
44	CRISP Spectropolarimetric Imaging of Penumbra Fine Structure. <i>Astrophysical Journal</i> , 2008, 689, L69-L72.	4.5	350
45	The Dust Halo of Saturn's Largest Icy Moon, Rhea. <i>Science</i> , 2008, 319, 1380-1384.	12.6	53
46	Stratification of Sunspot Umbral Dots from Inversion of Stokes Profiles Recorded by Hinode. <i>Astrophysical Journal</i> , 2008, 678, L157-L160.	4.5	40
47	The Nature of Running Penumbra Waves Revealed. <i>Astrophysical Journal</i> , 2007, 671, 1005-1012.	4.5	79
48	Recent advances in measuring chromospheric magnetic fields in the He I 10830 Å line. <i>Advances in Space Research</i> , 2007, 39, 1734-1740.	2.6	20
49	Enceladus' Varying Imprint on the Magnetosphere of Saturn. <i>Science</i> , 2006, 311, 1412-1415.	12.6	57
50	Anti-planetward auroral electron beams at Saturn. <i>Nature</i> , 2006, 439, 699-702.	27.8	40
51	Jovian plasma sheet morphology: particle and field observations by the Galileo spacecraft. <i>Planetary and Space Science</i> , 2005, 53, 681-692.	1.7	19
52	How To Use Magnetic Field Information For Coronal Loop Identification. <i>Solar Physics</i> , 2005, 228, 67-78.	2.5	31
53	Dynamics of Saturn's Magnetosphere from MIMI During Cassini's Orbital Insertion. <i>Science</i> , 2005, 307, 1270-1273.	12.6	166
54	The structure and dynamics of the Jovian energetic particle distribution. <i>Advances in Space Research</i> , 2004, 33, 2030-2038.	2.6	14

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55	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
56	Long-term dynamics of the inner Jovian electron radiation belts. Advances in Space Research, 2004, 33, 2039-2044.	2.6	12
57	Temporal evolution of chromospheric downflows. Proceedings of the International Astronomical Union, 2004, 2004, 279-280.	0.0	0
58	Three-dimensional magnetic field topology in a region of solar coronal heating. Nature, 2003, 425, 692-695.	27.8	151
59	Particle bursts in the Jovian magnetosphere: Evidence for a near-Jupiter neutral line. Geophysical Research Letters, 2002, 29, 42-1.	4.0	95
60	A nebula of gases from Io surrounding Jupiter. Nature, 2002, 415, 994-996.	27.8	44
61	Hot plasma heavy ion abundance in the inner Jovian magnetosphere (<10 R <sub>J</sub> ). Planetary and Space Science, 2001, 49, 275-282.	1.7	5
62	Local time asymmetry of energetic ion anisotropies in the Jovian magnetosphere. Planetary and Space Science, 2001, 49, 283-289.	1.7	21
63	Plasma sheet dynamics in the Jovian magnetotail: Signatures For substorm-like processes ?. Geophysical Research Letters, 1999, 26, 2137-2140.	4.0	42
64	Determination of the neutral number density in the Io torus from Galileo-EPD measurements. Geophysical Research Letters, 1998, 25, 4039-4042.	4.0	22
65	Quasi-periodic modulations of the Jovian magnetotail. Geophysical Research Letters, 1998, 25, 1253-1256.	4.0	80
66	Energetic particle bursts in the predawn Jovian magnetotail. Geophysical Research Letters, 1998, 25, 1249-1252.	4.0	91
67	Methanol in Human Breath. Alcoholism: Clinical and Experimental Research, 1995, 19, 1147-1150.	2.4	47
68	Applications of proton transfer reactions to gas analysis. International Journal of Mass Spectrometry and Ion Processes, 1994, 134, 55-66.	1.8	55