

Sami K Solanki

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4032692/publications.pdf>

Version: 2024-02-01

539
papers

24,270
citations

8755

75
h-index

15732

125
g-index

552
all docs

552
docs citations

552
times ranked

8053
citing authors

#	ARTICLE	IF	CITATIONS
1	Unusual activity of the Sun during recent decades compared to the previous 11,000 years. <i>Nature</i> , 2004, 431, 1084-1087.	27.8	814
2	Sunspots: An overview. <i>Astronomy and Astrophysics Review</i> , 2003, 11, 153-286.	25.5	564
3	The Solar Orbiter mission. <i>Astronomy and Astrophysics</i> , 2020, 642, A1.	5.1	514
4	Climate forcing reconstructions for use in PMIP simulations of the last millennium (v1.0). <i>Geoscientific Model Development</i> , 2011, 4, 33-45.	3.6	349
5	Grand minima and maxima of solar activity: new observational constraints. <i>Astronomy and Astrophysics</i> , 2007, 471, 301-309.	5.1	347
6	Small-scale solar magnetic fields: An overview. <i>Space Science Reviews</i> , 1993, 63, 1-188.	8.1	310
7	Climate and carbon-cycle variability over the last millennium. <i>Climate of the Past</i> , 2010, 6, 723-737.	3.4	284
8	Evolution of the solar irradiance during the Holocene. <i>Astronomy and Astrophysics</i> , 2011, 531, A6.	5.1	267
9	Recent variability of the solar spectral irradiance and its impact on climate modelling. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 3945-3977.	4.9	267
10	Reconstruction of solar total irradiance since 1700 from the surface magnetic flux. <i>Astronomy and Astrophysics</i> , 2007, 467, 335-346.	5.1	245
11	Determining the Inclination of the Rotation Axis of a Sun-like Star. <i>Astrophysical Journal</i> , 2003, 589, 1009-1019.	4.5	243
12	Evolution of the Sun's large-scale magnetic field since the Maunder minimum. <i>Nature</i> , 2000, 408, 445-447.	27.8	238
13	Climate forcing reconstructions for use in PMIP simulations of the Last Millennium (v1.1). <i>Geoscientific Model Development</i> , 2012, 5, 185-191.	3.6	238
14	Solar Irradiance Variability and Climate. <i>Annual Review of Astronomy and Astrophysics</i> , 2013, 51, 311-351.	24.3	231
15	SUNRISE: INSTRUMENT, MISSION, DATA, AND FIRST RESULTS. <i>Astrophysical Journal Letters</i> , 2010, 723, L127-L133.	8.3	230
16	The Imaging Magnetograph eXperiment (IMaX) for the Sunrise Balloon-Borne Solar Observatory. <i>Solar Physics</i> , 2011, 268, 57-102.	2.5	229
17	Reconstruction of solar irradiance variations in cycle 23: Is solar surface magnetism the cause?. <i>Astronomy and Astrophysics</i> , 2003, 399, L1-L4.	5.1	228
18	Toroidal versus poloidal magnetic fields in Sun-like stars: a rotation threshold. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 388, 80-88.	4.4	225

#	ARTICLE	IF	CITATIONS
19	The solar magnetic field. Reports on Progress in Physics, 2006, 69, 563-668.	20.1	222
20	Doppler Shift Oscillations of Hot Solar Coronal Plasma Seen by SUMER: A Signature of Loop Oscillations?. Astrophysical Journal, 2002, 574, L101-L104.	4.5	213
21	The Sunrise Mission. Solar Physics, 2011, 268, 1-34.	2.5	199
22	The 1.3-year and 156-day periodicities in sunspot data: Wavelet analysis suggests a common origin. Astronomy and Astrophysics, 2002, 394, 701-706.	5.1	187
23	Millennium-Scale Sunspot Number Reconstruction: Evidence for an Unusually Active Sun since the 1940s. Physical Review Letters, 2003, 91, 211101.	7.8	185
24	The Solar Orbiter EUV instrument: The Extreme Ultraviolet Imager. Astronomy and Astrophysics, 2020, 642, A8.	5.1	185
25	The AD775 cosmic event revisited: the Sun is to blame. Astronomy and Astrophysics, 2013, 552, L3.	5.1	181
26	Hot coronal loop oscillations observed with SUMER: Examples and statistics. Astronomy and Astrophysics, 2003, 406, 1105-1121.	5.1	176
27	Sunspot group tilt angles and the strength of the solar cycle. Astronomy and Astrophysics, 2010, 518, A7.	5.1	165
28	Secular variation of the Sun's magnetic flux. Astronomy and Astrophysics, 2002, 383, 706-712.	5.1	163
29	Slow-mode standing waves observed by SUMER in hot coronal loops. Astronomy and Astrophysics, 2003, 402, L17-L20.	5.1	162
30	The Maunder minimum (1645â€“1715) was indeed a grand minimum: A reassessment of multiple datasets. Astronomy and Astrophysics, 2015, 581, A95.	5.1	158
31	The PMIP4 contribution to CMIP6 â€“ Part 3: The last millennium, scientific objective, and experimental design for the PMIP4 <i>past1000</i> simulations. Geoscientific Model Development, 2017, 10, 4005-4033.	3.6	155
32	Three-dimensional magnetic field topology in a region of solar coronal heating. Nature, 2003, 425, 692-695.	27.8	151
33	Are cold winters in Europe associated with low solar activity?. Environmental Research Letters, 2010, 5, 024001.	5.2	148
34	Quiet-Sun inter-network magnetic fields observed in the infrared. Astronomy and Astrophysics, 2003, 408, 1115-1135.	5.1	144
35	The magnetic field in the solar atmosphere. Astronomy and Astrophysics Review, 2014, 22, 1.	25.5	140
36	Vertical oscillations of a coronal loop observed by TRACE. Astronomy and Astrophysics, 2004, 421, L33-L36.	5.1	140

#	ARTICLE	IF	CITATIONS
37	Reconstruction of total and spectral solar irradiance from 1974 to 2013 based on KPVT, SoHO/MDI, and SDO/HMI observations. <i>Astronomy and Astrophysics</i> , 2014, 570, A85.	5.1	139
38	Evolution of the large-scale magnetic field on the solar surface: A parameter study. <i>Astronomy and Astrophysics</i> , 2004, 426, 1075-1091.	5.1	133
39	The 1.5 meter solar telescope GREGOR. <i>Astronomische Nachrichten</i> , 2012, 333, 796-809.	1.2	131
40	Search for Sub-eV Mass Solar Axions by the CERN Axion Solar Telescope with $\langle \text{He} \rangle$ Buffer Gas. <i>Physical Review Letters</i> , 2011, 107, 261302.	7.8	129
41	Retrieval of the full magnetic vector with the He I multiplet at 1083 nm. <i>Astronomy and Astrophysics</i> , 2004, 414, 1109-1120.	5.1	128
42	Small-Scale Solar Magnetic Fields. <i>Space Science Reviews</i> , 2009, 144, 275.	8.1	128
43	A physical reconstruction of cosmic ray intensity since 1610. <i>Journal of Geophysical Research</i> , 2002, 107, SSH 13-1.	3.3	127
44	Solar Surface Magnetism and Irradiance on Time Scales from Days to the 11-Year Cycle. <i>Space Science Reviews</i> , 2009, 145, 337-380.	8.1	127
45	The Polarimetric and Helioseismic Imager on Solar Orbiter. <i>Astronomy and Astrophysics</i> , 2020, 642, A11.	5.1	121
46	Reconstruction of solar spectral irradiance since the Maunder minimum. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	119
47	Reconstruction of solar irradiance variations in cycles 21–23 based on surface magnetic fields. <i>Astronomy and Astrophysics</i> , 2006, 460, 583-595.	5.1	118
48	Metis: the Solar Orbiter visible light and ultraviolet coronal imager. <i>Astronomy and Astrophysics</i> , 2020, 642, A10.	5.1	115
49	Solar Science with the Atacama Large Millimeter/Submillimeter Array—A New View of Our Sun. <i>Space Science Reviews</i> , 2016, 200, 1-73.	8.1	113
50	Magnetic Flux Transport at the Solar Surface. <i>Space Science Reviews</i> , 2014, 186, 491-523.	8.1	110
51	A homogeneous database of sunspot areas covering more than 130 years. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	109
52	Evolution of the solar magnetic flux on time scales of years to millennia. <i>Astronomy and Astrophysics</i> , 2010, 509, A100.	5.1	105
53	SUNRISE/IMaX OBSERVATIONS OF CONVECTIVELY DRIVEN VORTEX FLOWS IN THE SUN. <i>Astrophysical Journal Letters</i> , 2010, 723, L139-L143.	8.3	103
54	A New Calibrated Sunspot Group Series Since 1749: Statistics of Active Day Fractions. <i>Solar Physics</i> , 2016, 291, 2685-2708.	2.5	101

#	ARTICLE	IF	CITATIONS
55	The intensity contrast of solar granulation: comparing Hinode SP results with MHD simulations. <i>Astronomy and Astrophysics</i> , 2008, 484, L17-L20.	5.1	99
56	Reconstruction of solar UV irradiance in cycle 23. <i>Astronomy and Astrophysics</i> , 2006, 452, 631-639.	5.1	98
57	Search for a relationship between solar cycle amplitude and length. <i>Astronomy and Astrophysics</i> , 2002, 396, 1029-1035.	5.1	97
58	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
59	Eleven-year solar cycles over the last millennium revealed by radiocarbon in tree rings. <i>Nature Geoscience</i> , 2021, 14, 10-15.	12.9	97
60	Solar irradiance since 1874 revisited. <i>Geophysical Research Letters</i> , 1998, 25, 341-344.	4.0	93
61	GRIS: The GREGOR Infrared Spectrograph. <i>Astronomische Nachrichten</i> , 2012, 333, 872-879.	1.2	93
62	On the intensity contrast of solar photospheric faculae and network elements. <i>Astronomy and Astrophysics</i> , 2002, 388, 1036-1047.	5.1	93
63	Search for Solar Axions by the CERN Axion Solar Telescope with $\langle \text{mml:math display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{He} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ Buffer Gas: Closing the Hot Dark Matter Gap. <i>Physical Review Letters</i> , 2014, 112, 091302.	7.8	92
64	Why Solar Magnetic Flux Concentrations Are Bright in Molecular Bands. <i>Astrophysical Journal</i> , 2003, 597, L173-L176.	4.5	91
65	A reconstruction of total solar irradiance since 1700. <i>Geophysical Research Letters</i> , 1999, 26, 2465-2468.	4.0	90
66	Can solar variability explain global warming since 1970?. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	90
67	The Filter Imager SuFI and the Image Stabilization and Light Distribution System ISLiD of the Sunrise Balloon-Borne Observatory: Instrument Description. <i>Solar Physics</i> , 2011, 268, 35-55.	2.5	86
68	G-band spectral synthesis and diagnostics of simulated solar magneto-convection. <i>Astronomy and Astrophysics</i> , 2004, 427, 335-343.	5.1	83
69	Probing quiet Sun magnetism using MURaM simulations and Hinode/SP results: support for a local dynamo. <i>Astronomy and Astrophysics</i> , 2010, 513, A1.	5.1	82
70	The Wave-Front Correction System for the Sunrise Balloon-Borne Solar Observatory. <i>Solar Physics</i> , 2011, 268, 103-123.	2.5	82
71	Variability of Sun-like stars: reproducing observed photometric trends. <i>Astronomy and Astrophysics</i> , 2014, 569, A38.	5.1	82
72	The Solar Orbiter SPICE instrument. <i>Astronomy and Astrophysics</i> , 2020, 642, A14.	5.1	82

#	ARTICLE	IF	CITATIONS
73	Millimeter observations and chromospheric dynamics. <i>Astronomy and Astrophysics</i> , 2004, 419, 747-756.	5.1	80
74	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
75	The molecular Zeeman effect and diagnostics of solar and stellar magnetic fields. <i>Astronomy and Astrophysics</i> , 2002, 385, 701-715.	5.1	79
76	The Nature of Running Penumbra Waves Revealed. <i>Astrophysical Journal</i> , 2007, 671, 1005-1012.	4.5	79
77	TRANSVERSE COMPONENT OF THE MAGNETIC FIELD IN THE SOLAR PHOTOSPHERE OBSERVED BY SUNRISE. <i>Astrophysical Journal Letters</i> , 2010, 723, L149-L153.	8.3	79
78	Comparing magnetic field extrapolations with measurements of magnetic loops. <i>Astronomy and Astrophysics</i> , 2005, 433, 701-705.	5.1	77
79	Solar total and spectral irradiance reconstruction over the last 9000 years. <i>Astronomy and Astrophysics</i> , 2018, 620, A120.	5.1	76
80	Discovery of kilogauss magnetic fields in three DA white dwarfs. <i>Astronomy and Astrophysics</i> , 2004, 423, 1081-1094.	5.1	75
81	Solar Cycle Variation in Solar Irradiance. <i>Space Science Reviews</i> , 2014, 186, 137-167.	8.1	75
82	Properties of sunspots in cycle 23. <i>Astronomy and Astrophysics</i> , 2007, 465, 291-304.	5.1	74
83	Structure of sunspot penumbral filaments: a remarkable uniformity of properties. <i>Astronomy and Astrophysics</i> , 2013, 557, A25.	5.1	73
84	Three dimensional structure of a regular sunspot from the inversion of IR Stokes profiles. <i>Astronomy and Astrophysics</i> , 2003, 410, 695-710.	5.1	72
85	The molecular Zeeman effect and diagnostics of solar and stellar magnetic fields. <i>Astronomy and Astrophysics</i> , 2003, 412, 513-527.	5.1	72
86	COMPARISON AMONG Ca II K SPECTROHELIOGRAM TIME SERIES WITH AN APPLICATION TO SOLAR ACTIVITY STUDIES. <i>Astrophysical Journal</i> , 2009, 698, 1000-1009.	4.5	72
87	Excitation and damping of slow magnetosonic standing waves in a solar coronal loop. <i>Astronomy and Astrophysics</i> , 2005, 436, 701-709.	5.1	70
88	Stokes diagnostics of simulations of magnetoconvection of mixed-polarity quiet-Sun regions. <i>Astronomy and Astrophysics</i> , 2005, 442, 1059-1078.	5.1	70
89	New reconstruction of the sunspot group numbers since 1739 using direct calibration and "backbone" methods. <i>Astronomy and Astrophysics</i> , 2017, 602, A69.	5.1	70
90	Frequently Occurring Reconnection Jets from Sunspot Light Bridges. <i>Astrophysical Journal</i> , 2018, 854, 92.	4.5	70

#	ARTICLE	IF	CITATIONS
91	The Sun is less active than other solar-like stars. <i>Science</i> , 2020, 368, 518-521.	12.6	70
92	Achievements of Hinode in the first eleven years. <i>Publication of the Astronomical Society of Japan</i> , 2019, 71, .	2.5	69
93	On the fine structure of sunspot penumbrae. <i>Astronomy and Astrophysics</i> , 2005, 436, 333-345.	5.1	69
94	Solar proton events in cosmogenic isotope data. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	67
95	SOHO/SUMER observations of prominence oscillation before eruption. <i>Astronomy and Astrophysics</i> , 2008, 484, 487-493.	5.1	67
96	The Influence of Metallicity on Stellar Differential Rotation and Magnetic Activity. <i>Astrophysical Journal</i> , 2018, 852, 46.	4.5	67
97	The Solar Orbiter Science Activity Plan. <i>Astronomy and Astrophysics</i> , 2020, 642, A3.	5.1	67
98	On the size distribution of sunspot groups in the Greenwich sunspot record 1874â€“1976. <i>Astronomy and Astrophysics</i> , 2005, 443, 1061-1066.	5.1	66
99	Initiation of hot coronal loop oscillations: Spectral features. <i>Astronomy and Astrophysics</i> , 2005, 435, 753-764.	5.1	66
100	First Stereoscopic Coronal Loop Reconstructions from <i>STEREO</i> SECCHI Images. <i>Astrophysical Journal</i> , 2007, 671, L205-L208.	4.5	66
101	Evidence for Polar Jets as Precursors of Polar Plume Formation. <i>Astrophysical Journal</i> , 2008, 682, L137-L140.	4.5	66
102	Observations of a rotating macrospicule associated with an X-ray jet. <i>Astronomy and Astrophysics</i> , 2010, 510, L1.	5.1	66
103	Peripheral downflows in sunspot penumbrae. <i>Astronomy and Astrophysics</i> , 2013, 557, A24.	5.1	66
104	Solar activity over nine millennia: A consistent multi-proxy reconstruction. <i>Astronomy and Astrophysics</i> , 2018, 615, A93.	5.1	66
105	Low-lying magnetic loops in the solar internetwork. <i>Astronomy and Astrophysics</i> , 2007, 469, L39-L42.	5.1	66
106	The solar spectral irradiance since 1700. <i>Geophysical Research Letters</i> , 2000, 27, 2157-2160.	4.0	65
107	Models of solar irradiance variations: Current status. <i>Journal of Astrophysics and Astronomy</i> , 2008, 29, 151-158.	1.0	65
108	DETECTION OF VORTEX TUBES IN SOLAR GRANULATION FROM OBSERVATIONS WITH SUNRISE. <i>Astrophysical Journal Letters</i> , 2010, 723, L180-L184.	8.3	65

#	ARTICLE	IF	CITATIONS
109	Quiet Sun magnetic fields observed by Hinode: Support for a local dynamo. <i>Astronomy and Astrophysics</i> , 2013, 555, A33.	5.1	65
110	On the fine structure of sunspot penumbrae. <i>Astronomy and Astrophysics</i> , 2004, 422, 1093-1104.	5.1	65
111	Long-term magnetic field monitoring of the Sun-like star κ^1 Bootis A. <i>Astronomy and Astrophysics</i> , 2012, 540, A138.	5.1	64
112	Solar Coronal Loops Associated with Small-scale Mixed Polarity Surface Magnetic Fields. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 4.	7.7	64
113	Solar activity, cosmic rays, and Earth's temperature: A millennium-scale comparison. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	62
114	Similarities and Differences between Coronal Holes and the Quiet Sun: Are Loop Statistics the Key?. <i>Solar Physics</i> , 2004, 225, 227-247.	2.5	61
115	Vigorous convection in a sunspot granular light bridge. <i>Astronomy and Astrophysics</i> , 2014, 568, A60.	5.1	61
116	New Light on the Heart of Darkness of the Solar Chromosphere. <i>Science</i> , 1994, 263, 64-66.	12.6	60
117	Are solar brightness variations faculae- or spot-dominated?. <i>Astronomy and Astrophysics</i> , 2016, 589, A46.	5.1	58
118	Comparison between KPVT/SPM and SoHO/MDI magnetograms with an application to solar irradiance reconstructions. <i>Astronomy and Astrophysics</i> , 2004, 427, 1031-1043.	5.1	57
119	Break up of returning plasma after the 7 June 2011 filament eruption by Rayleigh-Taylor instabilities. <i>Astronomy and Astrophysics</i> , 2012, 540, L10.	5.1	56
120	Nature of the energy source powering solar coronal loops driven by nanoflares. <i>Astronomy and Astrophysics</i> , 2018, 615, L9.	5.1	56
121	On the nature of moving magnetic feature pairs around sunspots. <i>Astronomy and Astrophysics</i> , 2003, 399, 755-761.	5.1	55
122	DETECTION OF LARGE ACOUSTIC ENERGY FLUX IN THE SOLAR ATMOSPHERE. <i>Astrophysical Journal Letters</i> , 2010, 723, L134-L138.	8.3	55
123	Comparison of solar photospheric bright points between Sunrise observations and MHD simulations. <i>Astronomy and Astrophysics</i> , 2014, 568, A13.	5.1	55
124	Solar Irradiance Variations: From Current Measurements to Long-Term Estimates. <i>Solar Physics</i> , 2004, 224, 197-208.	2.5	54
125	Thermal-magnetic relation in a sunspot and a map of its Wilson depression. <i>Astronomy and Astrophysics</i> , 2004, 422, 693-701.	5.1	54
126	Solar activity reconstructed over the last 7000 years: The influence of geomagnetic field changes. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	53

#	ARTICLE	IF	CITATIONS
127	Supersonic downflows in the vicinity of a growing pore. <i>Astronomy and Astrophysics</i> , 2007, 462, 1147-1155.	5.1	53
128	Intensity contrast of solar network and faculae. <i>Astronomy and Astrophysics</i> , 2013, 550, A95.	5.1	53
129	Models and data analysis tools for the Solar Orbiter mission. <i>Astronomy and Astrophysics</i> , 2020, 642, A2.	5.1	53
130	Evidence of convective rolls in a sunspot penumbra. <i>Astronomy and Astrophysics</i> , 2008, 488, L17-L20.	5.1	52
131	Millimeter radiation from a 3D model of the solar atmosphere. <i>Astronomy and Astrophysics</i> , 2015, 575, A15.	5.1	52
132	INTER-CYCLE VARIATIONS OF SOLAR IRRADIANCE: SUNSPOT AREAS AS A POINTER. <i>Solar Physics</i> , 1997, 173, 427-439.	2.5	51
133	Spectral irradiance variations: comparison between observations and the SATIRE model on solar rotation time scales. <i>Astronomy and Astrophysics</i> , 2008, 486, 311-323.	5.1	51
134	Propagating waves in polar coronal holes as seen by SUMER & EIS. <i>Astronomy and Astrophysics</i> , 2009, 499, L29-L32.	5.1	51
135	The nature of solar brightness variations. <i>Nature Astronomy</i> , 2017, 1, 612-616.	10.1	51
136	Can surface magnetic fields reproduce solar irradiance variations in cycles 22 and 23?. <i>Astronomy and Astrophysics</i> , 2005, 432, 1057-1061.	5.1	50
137	Structure and dynamics of isolated internetwork Ca II H&K bright points observed by SUNRISE. <i>Astronomy and Astrophysics</i> , 2013, 549, A116.	5.1	50
138	Line profile characteristics of solar explosive event bursts. <i>Astronomy and Astrophysics</i> , 2004, 419, 1141-1148.	5.1	50
139	Magnetic flux in the internetwork quiet Sun. <i>Astronomy and Astrophysics</i> , 2005, 436, L27-L30.	5.1	50
140	BRIGHT POINTS IN THE QUIET SUN AS OBSERVED IN THE VISIBLE AND NEAR-UV BY THE BALLOON-BORNE OBSERVATORY SUNRISE. <i>Astrophysical Journal Letters</i> , 2010, 723, L169-L174.	8.3	49
141	Properties of solar plage from a spatially coupled inversion of Hinode SP data. <i>Astronomy and Astrophysics</i> , 2015, 576, A27.	5.1	49
142	Solar variability and climate change: is there a link?. <i>Astronomy and Geophysics</i> , 2002, 43, 5.09-5.13.	0.2	48
143	On the heat transport in a sunspot penumbra. <i>Astronomy and Astrophysics</i> , 2003, 411, 257-262.	5.1	48
144	High-resolution millimeter-interferometer observations of the solar chromosphere. <i>Astronomy and Astrophysics</i> , 2006, 456, 697-711.	5.1	48

#	ARTICLE	IF	CITATIONS
145	Reconstruction of solar UV irradiance since 1974. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	48
146	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
147	Moments of the latitudinal dependence of the sunspot cycle: a new diagnostic of dynamo models. <i>Astronomy and Astrophysics</i> , 2008, 483, 623-632.	5.1	48
148	The fraction of DA white dwarfs with kilo-Gauss magnetic fields. <i>Astronomy and Astrophysics</i> , 2007, 462, 1097-1101.	5.1	48
149	Structure and Evolution of Supergranulation from Local Helioseismology. <i>Solar Physics</i> , 2008, 251, 417-437.	2.5	47
150	Nitrate in Polar Ice: A New Tracer of Solar Variability. <i>Solar Physics</i> , 2012, 280, 237-254.	2.5	47
151	A New SATIRE-S Spectral Solar Irradiance Reconstruction for Solar Cycles 21â€“23 and Its Implications for Stratospheric Ozone*. <i>Journals of the Atmospheric Sciences</i> , 2014, 71, 4086-4101.	1.7	47
152	Solar cyclic activity over the last millennium reconstructed from annual ¹⁴ C data. <i>Astronomy and Astrophysics</i> , 2021, 649, A141.	5.1	47
153	Stray light correction and contrast analysis of Hinode broad-band images. <i>Astronomy and Astrophysics</i> , 2009, 501, L19-L22.	5.1	45
154	On the common solar signal in different cosmogenic isotope data sets. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	45
155	ACCELERATING WAVES IN POLAR CORONAL HOLES AS SEEN BY EIS AND SUMER. <i>Astrophysical Journal</i> , 2010, 718, 11-22.	4.5	45
156	Solar Irradiance Variability is Caused by the Magnetic Activity on the Solar Surface. <i>Physical Review Letters</i> , 2017, 119, 091102.	7.8	45
157	Sunspot area catalog revisited: Daily cross-calibrated areas since 1874. <i>Astronomy and Astrophysics</i> , 2020, 640, A78.	5.1	45
158	Measuring Stellar Differential rotation with asteroseismology. <i>Solar Physics</i> , 2004, 220, 169-184.	2.5	44
159	Stokes diagnostics of simulated solar magneto-convection. <i>Astronomy and Astrophysics</i> , 2007, 469, 731-747.	5.1	44
160	Continuous upflows and sporadic downflows observed in active regions. <i>Astronomy and Astrophysics</i> , 2011, 532, A96.	5.1	44
161	The relationship between chromospheric emissions and magnetic field strength. <i>Astronomy and Astrophysics</i> , 2009, 497, 273-285.	5.1	44
162	Analyzing Solar Cycles. <i>Science</i> , 2011, 334, 916-917.	12.6	43

#	ARTICLE	IF	CITATIONS
163	Effect of spatial resolution on estimating the Sun's magnetic flux. <i>Astronomy and Astrophysics</i> , 2004, 417, 1125-1132.	5.1	43
164	On the fine structure of sunspot penumbrae. <i>Astronomy and Astrophysics</i> , 2006, 450, 383-393.	5.1	42
165	Brightness, distribution, and evolution of sunspot umbral dots. <i>Astronomy and Astrophysics</i> , 2008, 492, 233-243.	5.1	41
166	Bright fibrils in Ca II K. <i>Astronomy and Astrophysics</i> , 2009, 502, 647-660.	5.1	41
167	Magnetic field intensification: comparison of 3D MHD simulations with Hinode/SP results. <i>Astronomy and Astrophysics</i> , 2010, 509, A76.	5.1	41
168	Three-dimensional structure of a sunspot light bridge. <i>Astronomy and Astrophysics</i> , 2016, 596, A59.	5.1	41
169	Analysis of full disc Ca II K spectroheliograms. <i>Astronomy and Astrophysics</i> , 2019, 625, A69.	5.1	41
170	Large Doppler Shifts in X-Ray Plasma: An Explosive Start to Coronal Mass Ejection. <i>Astrophysical Journal</i> , 2001, 549, L249-L252.	4.5	40
171	Numerical simulations of vertical oscillations of a solar coronal loop. <i>Astronomy and Astrophysics</i> , 2005, 440, 385-390.	5.1	40
172	Theoretical modeling for the stereo mission. <i>Space Science Reviews</i> , 2008, 136, 565-604.	8.1	40
173	Stratification of Sunspot Umbral Dots from Inversion of Stokes Profiles Recorded by Hinode. <i>Astrophysical Journal</i> , 2008, 678, L157-L160.	4.5	40
174	CONVECTIVE NATURE OF SUNSPOT PENUMBRAL FILAMENTS: DISCOVERY OF DOWNFLOWS IN THE DEEP PHOTOSPHERE. <i>Astrophysical Journal Letters</i> , 2011, 734, L18.	8.3	40
175	The influence of an inclined rotation axis on solar irradiance variations. <i>Astronomy and Astrophysics</i> , 2001, 376, 1080-1089.	5.1	40
176	Magnetic structures of an emerging flux region in the solar photosphere and chromosphere. <i>Astronomy and Astrophysics</i> , 2010, 520, A77.	5.1	39
177	EMPIRE: A robust empirical reconstruction of solar irradiance variability. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 3888-3914.	2.4	39
178	Transverse Oscillations in Slender Ca II H Fibrils Observed with Sunrise/SuFI. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 9.	7.7	39
179	Analysis of blinkers and EUV brightenings in the quiet Sun observed with CDS. <i>Astronomy and Astrophysics</i> , 2001, 373, 1056-1072.	5.1	39
180	The molecular Zeeman effect and diagnostics of solar and stellar magnetic fields. <i>Astronomy and Astrophysics</i> , 2005, 444, 947-960.	5.1	38

#	ARTICLE	IF	CITATIONS
181	Evidence of magnetic field wrapping around penumbral filaments. <i>Astronomy and Astrophysics</i> , 2008, 481, L13-L16.	5.1	38
182	MAGNETIC LOOPS IN THE QUIET SUN. <i>Astrophysical Journal Letters</i> , 2010, 723, L185-L189.	8.3	38
183	MESOGANULATION AND THE SOLAR SURFACE MAGNETIC FIELD DISTRIBUTION. <i>Astrophysical Journal Letters</i> , 2011, 727, L30.	8.3	38
184	UV solar irradiance in observations and the NRLSSI and SATIRE models. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 6055-6070.	2.4	38
185	High-frequency Oscillations in Small Magnetic Elements Observed with Sunrise/SuFI. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 10.	7.7	38
186	A nanoflare model of quiet Sun EUV emission. <i>Astronomy and Astrophysics</i> , 2007, 462, 311-322.	5.1	38
187	Spot sizes on Sun-like stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 348, 307-315.	4.4	37
188	Energy leakage as an attenuation mechanism for vertical kink oscillations in solar coronal wave guides. <i>Astronomy and Astrophysics</i> , 2007, 462, 1127-1135.	5.1	37
189	ACRIM gap and total solar irradiance revisited: Is there a secular trend between 1986 and 1996?. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	37
190	The quiet Sun average Doppler shift of coronal lines up to 2 Å MK. <i>Astronomy and Astrophysics</i> , 2011, 534, A90.	5.1	37
191	EUV jets, type III radio bursts and sunspot waves investigated using SDO/AIA observations. <i>Astronomy and Astrophysics</i> , 2011, 531, L13.	5.1	37
192	The continuum intensity as a function of magnetic field. <i>Astronomy and Astrophysics</i> , 2011, 531, A112.	5.1	37
193	UNNOTICED MAGNETIC FIELD OSCILLATIONS IN THE VERY QUIET SUN REVEALED BY SUNRISE/IMaX. <i>Astrophysical Journal Letters</i> , 2011, 730, L37.	8.3	37
194	Solar Magnetoconvection and Small-Scale Dynamo. <i>Space Science Reviews</i> , 2017, 210, 275-316.	8.1	37
195	Multicomponent He I 10830 Å... profiles in an active filament. <i>Astronomy and Astrophysics</i> , 2011, 526, A42.	4.2	37
196	Magnetic flux transport on active cool stars and starspot lifetimes. <i>Astronomy and Astrophysics</i> , 2007, 464, 1049-1057.	5.1	37
197	Vector tomography for the coronal magnetic field. <i>Astronomy and Astrophysics</i> , 2006, 456, 665-673.	5.1	36
198	RESOLVING THE INTERNAL MAGNETIC STRUCTURE OF THE SOLAR NETWORK. <i>Astrophysical Journal Letters</i> , 2012, 758, L40.	8.3	36

#	ARTICLE	IF	CITATIONS
199	Title is missing!. Space Science Reviews, 2000, 94, 145-152.	8.1	35
200	QUIET-SUN INTENSITY CONTRASTS IN THE NEAR-ULTRAVIOLET AS MEASURED FROM SUNRISE. Astrophysical Journal Letters, 2010, 723, L154-L158.	8.3	35
201	SUPERSONIC MAGNETIC UPFLOWS IN GRANULAR CELLS OBSERVED WITH SUNRISE/IMAX. Astrophysical Journal Letters, 2010, 723, L144-L148.	8.3	35
202	THE FRONTIER BETWEEN SMALL-SCALE BIPOLES AND EPHEMERAL REGIONS IN THE SOLAR PHOTOSPHERE: EMERGENCE AND DECAY OF AN INTERMEDIATE-SCALE BIPOLE OBSERVED WITH SUNRISE/IMaX. Astrophysical Journal, 2012, 745, 160.	4.5	35
203	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
204	Understanding the origins of the heliosphere: integrating observations and measurements from Parker Solar Probe, Solar Orbiter, and other space- and ground-based observatories. Astronomy and Astrophysics, 2020, 642, A4.	5.1	35
205	Solar constraints on new couplings between electromagnetism and gravity. Physical Review D, 2004, 69, .	4.7	34
206	Numerical simulations of impulsively generated vertical oscillations in a solar coronal arcade loop. Astronomy and Astrophysics, 2006, 454, 653-661.	5.1	34
207	Solar magnetism eXplorer (SolmeX). Experimental Astronomy, 2012, 33, 271-303.	3.7	34
208	Reconstruction of spectral solar irradiance since 1700 from simulated magnetograms. Astronomy and Astrophysics, 2016, 590, A63.	5.1	34
209	Slender Ca ii H Fibrils Mapping Magnetic Fields in the Low Solar Chromosphere. Astrophysical Journal, Supplement Series, 2017, 229, 11.	7.7	34
210	Spectral variability of photospheric radiation due to faculae. Astronomy and Astrophysics, 2017, 605, A45.	5.1	34
211	Migration of Ca ii H bright points in the internetwork. Astronomy and Astrophysics, 2014, 563, A101.	5.1	34
212	Properties of Solar Polar Coronal Plumes Constrained by Ultraviolet Coronagraph Spectrometer Data. Astrophysical Journal, 2007, 658, 643-656.	4.5	33
213	A first step in reconstructing the solar corona self-consistently with a magnetohydrostatic model during solar activity minimum. Astronomy and Astrophysics, 2008, 481, 827-834.	5.1	33
214	Three-dimensional non-LTE radiative transfer effects in Fe i lines. Astronomy and Astrophysics, 2013, 558, A20.	5.1	33
215	THE HISTORY OF A QUIET-SUN MAGNETIC ELEMENT REVEALED BY IMaX/SUNRISE. Astrophysical Journal, 2014, 789, 6.	4.5	33
216	Point spread function of SDO/HMI and the effects of stray light correction on the apparent properties of solar surface phenomena. Astronomy and Astrophysics, 2014, 561, A22.	5.1	33

#	ARTICLE	IF	CITATIONS
217	Intercalibration of SUMER and CDS on SOHO I SUMER detector A and CDS NIS. Applied Optics, 1999, 38, 7035.	2.1	32
218	Distribution of magnetic flux on the solar surface and low-degree p-modes. Monthly Notices of the Royal Astronomical Society, 2000, 313, 411-422.	4.4	32
219	High-resolution, high-sensitivity, ground-based solar spectropolarimetry with a new fast imaging polarimeter. Astronomy and Astrophysics, 2016, 590, A89.	5.1	32
220	FORMATION OF THE PENUMBRA AND START OF THE EVERSHEED FLOW. Astrophysical Journal, 2016, 825, 75.	4.5	32
221	Forward modelling of brightness variations in Sun-like stars. Astronomy and Astrophysics, 2018, 620, A177.	5.1	32
222	Analysis of full-disc Ca II K spectroheliograms. Astronomy and Astrophysics, 2020, 639, A88.	5.1	32
223	First light observations of the solar wind in the outer corona with the Metis coronagraph. Astronomy and Astrophysics, 2021, 656, A32.	5.1	32
224	How To Use Magnetic Field Information For Coronal Loop Identification. Solar Physics, 2005, 228, 67-78.	2.5	31
225	Long-term solar activity reconstructions: direct test by cosmogenic ^{14}C in meteorites. Astronomy and Astrophysics, 2006, 457, L25-L28.	5.1	31
226	Reconstructed and measured total solar irradiance: Is there a secular trend between 1978 and 2003?. Geophysical Research Letters, 2009, 36, .	4.0	31
227	KINK WAVES IN AN ACTIVE REGION DYNAMIC FIBRIL. Astrophysical Journal, 2011, 739, 92.	4.5	31
228	Sunspot areas and tilt angles for solar cycles 7-10. Astronomy and Astrophysics, 2015, 584, A73.	5.1	31
229	An astronomical search for evidence of new physics: Limits on gravity-induced birefringence from the magnetic white dwarf RE J0317-853. Physical Review D, 2004, 70, .	4.7	30
230	Three-dimensional non-LTE radiative transfer effects in Fe I lines. Astronomy and Astrophysics, 2012, 547, A46.	5.1	30
231	The Sun at solar minimum: North - south asymmetry of the polar coronal holes. Geophysical Research Letters, 2002, 29, 77-1-77-4.	4.0	29
232	Identification of different types of kink modes in coronal loops: principles and application to TRACE results. Astronomy and Astrophysics, 2008, 489, 1307-1317.	5.1	29
233	Fine structures in the atmosphere above a sunspot umbra. Astronomy and Astrophysics, 2013, 552, L1.	5.1	29
234	The role of the Fraunhofer lines in solar brightness variability. Astronomy and Astrophysics, 2015, 581, A116.	5.1	29

#	ARTICLE	IF	CITATIONS
235	Deep probing of the photospheric sunspot penumbra: no evidence of field-free gaps. <i>Astronomy and Astrophysics</i> , 2016, 596, A2.	5.1	29
236	From solar to stellar brightness variations. <i>Astronomy and Astrophysics</i> , 2018, 619, A146.	5.1	29
237	Effect of the electron density stratification on off-limb O ^{VI} line profiles: How large is the velocity distribution anisotropy in the solar corona?. <i>Astronomy and Astrophysics</i> , 2004, 427, 725-733.	5.1	29
238	Noise reduction in astronomical spectra using wavelet packets. <i>Astronomy and Astrophysics</i> , 1997, 124, 579-587.	2.1	29
239	The dynamics of the solar chromosphere: comparison of model predictions with millimeter-interferometer observations. <i>Astronomy and Astrophysics</i> , 2006, 456, 713-723.	5.1	28
240	Modelling total solar irradiance since 1878 from simulated magnetograms. <i>Astronomy and Astrophysics</i> , 2014, 570, A23.	5.1	28
241	Probing deep photospheric layers of the quiet Sun with high magnetic sensitivity. <i>Astronomy and Astrophysics</i> , 2016, 596, A6.	5.1	28
242	Brightness of Solar Magnetic Elements As a Function of Magnetic Flux at High Spatial Resolution. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 12.	7.7	28
243	Millimeter radiation from a 3D model of the solar atmosphere. <i>Astronomy and Astrophysics</i> , 2017, 601, A43.	5.1	28
244	Estimation of the Magnetic Flux Emergence Rate in the Quiet Sun from Sunrise Data. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 17.	7.7	28
245	A Tale of Two Emergences: Sunrise II Observations of Emergence Sites in a Solar Active Region. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 3.	7.7	28
246	Comparison of the thin flux tube approximation with 3D MHD simulations. <i>Astronomy and Astrophysics</i> , 2009, 504, 595-603.	5.1	27
247	Vertical flows and mass flux balance of sunspot umbral dots. <i>Astronomy and Astrophysics</i> , 2013, 554, A53.	5.1	27
248	Are There Field-Free Gaps near $\beta = 1$ in Sunspot Penumbrae?. <i>Astrophysical Journal</i> , 2008, 687, 668-677.	4.5	26
249	A nanoflare model for active region radiance: application of artificial neural networks. <i>Astronomy and Astrophysics</i> , 2008, 492, L13-L16.	5.1	26
250	On detectability of Zeeman broadening in optical spectra of F- and G-dwarfs. <i>Astronomy and Astrophysics</i> , 2010, 522, A81.	5.1	26
251	Spectroscopic observations of propagating disturbances in a polar coronal hole: evidence of slow magneto-acoustic waves. <i>Astronomy and Astrophysics</i> , 2012, 546, A93.	5.1	26
252	The variability of magnetic activity in solar-type stars. <i>Astronomische Nachrichten</i> , 2017, 338, 753-772.	1.2	26

#	ARTICLE	IF	CITATIONS
253	Recovering the unsigned photospheric magnetic field from Ca II K observations. <i>Astronomy and Astrophysics</i> , 2019, 626, A114.	5.1	26
254	Simulations Show that Vortex Flows Could Heat the Chromosphere in Solar Plage. <i>Astrophysical Journal Letters</i> , 2020, 894, L17.	8.3	26
255	A bright coronal downflow seen in multi-wavelength observations: evidence of a bifurcating flux-rope?. <i>Astronomy and Astrophysics</i> , 2007, 472, 633-642.	5.1	26
256	Observation of a bright coronal downflow by SOHO/EIT. <i>Astronomy and Astrophysics</i> , 2006, 449, 369-378.	5.1	25
257	Radiative emission of solar features in the Ca II K line: comparison of measurements and models. <i>Astronomy and Astrophysics</i> , 2010, 523, A55.	5.1	25
258	LEMUR: Large European module for solar Ultraviolet Research. <i>Experimental Astronomy</i> , 2012, 34, 273-309.	3.7	25
259	Stratospheric O ₃ changes during 2001–2010: the small role of solar flux variations in a chemical transport model. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 10113-10123.	4.9	25
260	Sunspot group tilt angles and the strength of the solar cycle (<i>Corrigendum</i>). <i>Astronomy and Astrophysics</i> , 2013, 556, C3.	5.1	25
261	Magnetic structure of an activated filament in a flaring active region. <i>Astronomy and Astrophysics</i> , 2014, 561, A98.	5.1	25
262	Diagnostics of Coronal Magnetic Fields through the Hanle Effect in UV and IR Lines. <i>Frontiers in Astronomy and Space Sciences</i> , 2016, 3, .	2.8	25
263	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
264	Analysis of full disc Ca II K spectroheliograms. <i>Astronomy and Astrophysics</i> , 2018, 609, A92.	5.1	25
265	ALMA Detection of Dark Chromospheric Holes in the Quiet Sun. <i>Astrophysical Journal Letters</i> , 2019, 877, L26.	8.3	25
266	Inflection point in the power spectrum of stellar brightness variations. <i>Astronomy and Astrophysics</i> , 2020, 633, A32.	5.1	25
267	Was one sunspot cycle in the 18th century really lost?. <i>Astronomy and Astrophysics</i> , 2002, 396, 235-242.	5.1	25
268	STEREOSCOPIC POLAR PLUME RECONSTRUCTIONS FROM STEREO/SECCHI IMAGES. <i>Astrophysical Journal</i> , 2009, 700, 292-301.	4.5	25
269	Reconstruction of solar irradiance using the Group sunspot number. <i>Advances in Space Research</i> , 2007, 40, 986-989.	2.6	24
270	The influence of spectral solar irradiance data on stratospheric heating rates during the 11 year solar cycle. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	24

#	ARTICLE	IF	CITATIONS
271	Inference of magnetic fields in the very quiet Sun. <i>Astronomy and Astrophysics</i> , 2016, 596, A5.	5.1	24
272	Solar ALMA Observations: Constraining the Chromosphere above Sunspots. <i>Astrophysical Journal</i> , 2017, 850, 35.	4.5	24
273	Effect of Transport Coefficients on Excitation of Flare-induced Standing Slow-mode Waves in Coronal Loops. <i>Astrophysical Journal</i> , 2018, 860, 107.	4.5	24
274	The Dimmest State of the Sun. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090243.	4.0	24
275	Detection of the Strongest Magnetic Field in a Sunspot Light Bridge. <i>Astrophysical Journal</i> , 2020, 895, 129.	4.5	24
276	First evidence of interaction between longitudinal and transverse waves in solar magnetic elements. <i>Astronomy and Astrophysics</i> , 2013, 554, A115.	5.1	24
277	Vortex flow properties in simulations of solar plage region: Evidence for their role in chromospheric heating. <i>Astronomy and Astrophysics</i> , 2021, 645, A3.	5.1	24
278	A comparative study of the contrast of solar magnetic elements in CN and CH. <i>Astronomy and Astrophysics</i> , 2005, 437, L43-L46.	5.1	24
279	Interplanetary and solar surface properties of coronal holes observed during solar maximum. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	23
280	Magnetic Stereoscopy of Coronal Loops in NOAA 8891. <i>Solar Physics</i> , 2007, 241, 235-249.	2.5	23
281	THE ROLE OF ACTIVE REGION LOOP GEOMETRY. II. SYMMETRY BREAKING IN THREE-DIMENSIONAL ACTIVE REGION: WHY ARE VERTICAL KINK OSCILLATIONS OBSERVED SO RARELY?. <i>Astrophysical Journal</i> , 2011, 728, 87.	4.5	23
282	THE FORMATION AND DISINTEGRATION OF MAGNETIC BRIGHT POINTS OBSERVED BY <i>SUNRISE</i> /IMaX. <i>Astrophysical Journal</i> , 2014, 796, 79.	4.5	23
283	Inclinations of small quiet-Sun magnetic features based on a new geometric approach. <i>Astronomy and Astrophysics</i> , 2014, 569, A105.	5.1	23
284	MAGNETO-STATIC MODELING OF THE MIXED PLASMA BETA SOLAR ATMOSPHERE BASED ON <i>SUNRISE</i> /IMaX DATA. <i>Astrophysical Journal</i> , 2015, 815, 10.	4.5	23
285	Active region fine structure observed at 0.08 arcsec resolution. <i>Astronomy and Astrophysics</i> , 2016, 596, A7.	5.1	23
286	A New MHD-assisted Stokes Inversion Technique. <i>Astrophysical Journal</i> , Supplement Series, 2017, 229, 16.	7.7	23
287	Intensity contrast from MHD simulations and HINODE observations. <i>Astronomy and Astrophysics</i> , 2011, 526, A120.	5.1	23
288	Evolution of the Fine Structure of Magnetic Fields in the Quiet Sun: Observations from <i>Sunrise</i> /IMaX and Extrapolations. <i>Solar Physics</i> , 2013, 283, 253-272.	2.5	22

#	ARTICLE	IF	CITATIONS
289	Magnetic field emergence in mesogranular-sized exploding granules observed with sunrise/IMaX data. <i>Astronomy and Astrophysics</i> , 2012, 537, A21.	5.1	22
290	Solar variability and global warming: a statistical comparison since 1850. <i>Advances in Space Research</i> , 2004, 34, 361-364.	2.6	21
291	Sensitivity of solar off-limb line profiles to electron density stratification and the velocity distribution anisotropy. <i>Astronomy and Astrophysics</i> , 2006, 445, 735-745.	5.1	21
292	SURFACE WAVES IN SOLAR GRANULATION OBSERVED WITH SUNRISE. <i>Astrophysical Journal Letters</i> , 2010, 723, L175-L179.	8.3	21
293	The chromosphere above sunspots at millimeter wavelengths. <i>Astronomy and Astrophysics</i> , 2014, 561, A133.	5.1	21
294	Magnetic fields of opposite polarity in sunspot penumbrae. <i>Astronomy and Astrophysics</i> , 2016, 596, A4.	5.1	21
295	Magneto-static Modeling from Sunrise/IMaX: Application to an Active Region Observed with Sunrise II. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 18.	7.7	21
296	Properties of ultraviolet lines observed with the Coronal Diagnostic Spectrometer (CDS/SOHO) in coronal holes and the quiet Sun. <i>Astronomy and Astrophysics</i> , 2002, 381, 653-667.	5.1	21
297	Models for solar magnetic loops. <i>Astronomy and Astrophysics</i> , 2002, 383, 661-677.	5.1	21
298	Size-dependent properties of simulated 2-D solar granulation. <i>Astronomy and Astrophysics</i> , 2000, 146, 267-291.	2.1	21
299	Amplification of Brightness Variability by Active-region Nesting in Solar-like Stars. <i>Astrophysical Journal Letters</i> , 2020, 901, L12.	8.3	21
300	A formation mechanism of magnetic elements in regions of mixed polarity. <i>Solar Physics</i> , 2001, 203, 1-7.	2.5	20
301	How much of the solar irradiance variations is caused by the magnetic field at the solar surface?. <i>Advances in Space Research</i> , 2002, 29, 1933-1940.	2.6	20
302	Solar Variability of Possible Relevance for Planetary Climates. <i>Space Science Reviews</i> , 2007, 125, 25-37.	8.1	20
303	The FeH $F^{\Delta}X^{\Delta}$ system. <i>Astronomy and Astrophysics</i> , 2008, 482, 387-395.	5.1	20
304	Slow magnetoacoustic standing waves in a curved solar coronal slab. <i>Astronomy and Astrophysics</i> , 2009, 495, 313-318.	5.1	20
305	Upper chromospheric magnetic field of a sunspot penumbra: observations of fine structure. <i>Astronomy and Astrophysics</i> , 2016, 596, A8.	5.1	20
306	3D Radiative MHD Simulations of Starspots. <i>Astrophysical Journal</i> , 2020, 893, 113.	4.5	20

#	ARTICLE	IF	CITATIONS
307	Fe XIX observations of active region brightenings in the corona. <i>Astronomy and Astrophysics</i> , 2006, 455, 1105-1113.	5.1	20
308	Reconstruction of solar UV irradiance. <i>Advances in Space Research</i> , 2005, 35, 361-364.	2.6	19
309	Nonlinear force-free modelling: influence of inaccuracies in the measured magnetic vector. <i>Astronomy and Astrophysics</i> , 2010, 511, A4.	5.1	19
310	Solar total irradiance in cycle 23. <i>Astronomy and Astrophysics</i> , 2011, 529, A81.	5.1	19
311	Power spectra of solar brightness variations at various inclinations. <i>Astronomy and Astrophysics</i> , 2020, 636, A43.	5.1	19
312	MPS-ATLAS: A fast all-in-one code for synthesising stellar spectra. <i>Astronomy and Astrophysics</i> , 2021, 653, A65.	5.1	19
313	Effect of metallicity on the detectability of rotational periods in solar-like stars. <i>Astronomy and Astrophysics</i> , 2020, 634, L9.	5.1	19
314	How unusual is today's solar activity? (reply). <i>Nature</i> , 2005, 436, E4-E5.	27.8	18
315	Milne-Eddington inversions of the He I 10830 Å... Stokes profiles: influence of the Paschen-Back effect. <i>Astronomy and Astrophysics</i> , 2006, 456, 367-371.	5.1	18
316	THE ROLE OF ACTIVE REGION LOOP GEOMETRY. I. HOW CAN IT AFFECT CORONAL SEISMOLOGY?. <i>Astrophysical Journal</i> , 2011, 726, 42.	4.5	18
317	DYNAMICS OF MULTI-CORED MAGNETIC STRUCTURES IN THE QUIET SUN. <i>Astrophysical Journal</i> , 2015, 810, 79.	4.5	18
318	Emission of solar chromospheric and transition region features related to the underlying magnetic field. <i>Astronomy and Astrophysics</i> , 2018, 619, A5.	5.1	18
319	Delving into the Historical Ca II K Archive from the Kodaikanal Observatory: The Potential of the Most Recent Digitized Series. <i>Solar Physics</i> , 2019, 294, 1.	2.5	18
320	Normal and counter Evershed flows in the photospheric penumbra of a sunspot. <i>Astronomy and Astrophysics</i> , 2017, 607, A36.	5.1	18
321	Impulsive coronal heating during the interaction of surface magnetic fields in the lower solar atmosphere. <i>Astronomy and Astrophysics</i> , 2020, 644, A130.	5.1	18
322	Spatial and temporal fluctuations in sunspots derived from MDI data. <i>Astronomy and Astrophysics</i> , 2003, 411, 249-256.	5.1	17
323	EVIDENCE FOR CONVECTION IN SUNSPOT PENUMBRAE. <i>Astrophysical Journal Letters</i> , 2010, 722, L194-L198.	8.3	17
324	Performance validation of phase diversity image reconstruction techniques. <i>Astronomy and Astrophysics</i> , 2011, 529, A132.	5.1	17

#	ARTICLE	IF	CITATIONS
325	Three-dimensional non-LTE radiative transfer effects in Fe <i>i</i> lines. <i>Astronomy and Astrophysics</i> , 2015, 582, A101.	5.1	17
326	Helioseismology with Solar Orbiter. <i>Space Science Reviews</i> , 2015, 196, 251-283.	8.1	17
327	Vertical magnetic field gradient in the photospheric layers of sunspots. <i>Astronomy and Astrophysics</i> , 2017, 599, A35.	5.1	17
328	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
329	The Small-scale Structure of Photospheric Convection Retrieved by a Deconvolution Technique Applied to Hinode/SP Data. <i>Astrophysical Journal</i> , 2017, 849, 7.	4.5	17
330	The influence of NLTE effects in Fe <i>l</i> lines on an inverted atmosphere. <i>Astronomy and Astrophysics</i> , 2020, 633, A157.	5.1	17
331	The velocity structure of moving magnetic feature pairs around sunspots: support for the U-loop model. <i>Astronomy and Astrophysics</i> , 2007, 471, 1035-1041.	5.1	17
332	Propagating brightenings in small loop-like structures in the quiet-Sun corona: Observations from Solar Orbiter/EUI. <i>Astronomy and Astrophysics</i> , 2021, 656, L16.	5.1	17
333	Statistical evolution of quiet-Sun small-scale magnetic features using Sunrise observations. <i>Astronomy and Astrophysics</i> , 2017, 598, A47.	5.1	16
334	Lambda-shaped jets from a penumbral intrusion into a sunspot umbra: a possibility for magnetic reconnection. <i>Astronomy and Astrophysics</i> , 2017, 597, A127.	5.1	16
335	Photospheric Response to an Ellerman Bomb-like Event—An Analogy of Sunrise/IMaX Observations and MHD Simulations. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 5.	7.7	16
336	Convectively Driven Sinks and Magnetic Fields in the Quiet-Sun. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 14.	7.7	16
337	Attenuation of Alfvén waves in straight and curved coronal slabs. <i>Astronomy and Astrophysics</i> , 2007, 469, 1117-1121.	5.1	15
338	ALMA as the ideal probe of the solar chromosphere. <i>Astrophysics and Space Science</i> , 2008, 313, 197-200.	1.4	15
339	CONVECTIVE MOTIONS AND NET CIRCULAR POLARIZATION IN SUNSPOT PENUMBRAE. <i>Astrophysical Journal</i> , 2010, 709, 349-357.	4.5	15
340	Modelling solar irradiance variability on time scales from minutes to months. <i>Astronomy and Astrophysics</i> , 2011, 532, A108.	5.1	15
341	The continuum intensity as a function of magnetic field. <i>Astronomy and Astrophysics</i> , 2012, 542, A96.	5.1	15
342	The Polarimetric and Helioseismic Imager for Solar Orbiter: SO/PHI. <i>Proceedings of the International Astronomical Union</i> , 2014, 10, 108-113.	0.0	15

#	ARTICLE	IF	CITATIONS
343	Relationship between supergranulation flows, magnetic cancellation and network flares. <i>Astronomy and Astrophysics</i> , 2016, 596, A15.	5.1	15
344	Morphological Properties of Slender Ca H Fibrils Observed by Sunrise II. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 6.	7.7	15
345	Modelling the evolution of the Sun's open and total magnetic flux. <i>Astronomy and Astrophysics</i> , 2021, 650, A70.	5.1	15
346	A Multi-Purpose Heliophysics L4 Mission. <i>Space Weather</i> , 2021, 19, e2021SW002777.	3.7	15
347	Empirical Models Of Photospheric Flux Tubes. , 1990, , 103-120.		15
348	Expansion of magnetic flux concentrations: a comparison of Hinode SOT data and models. <i>Astronomy and Astrophysics</i> , 2010, 518, A50.	5.1	14
349	Doppler shift of hot coronal lines in a moss area of an active region. <i>Astronomy and Astrophysics</i> , 2012, 548, A115.	5.1	14
350	COMPARISON BETWEEN Mg II k AND Ca II H IMAGES RECORDED BY SUNRISE/SuFI. <i>Astrophysical Journal</i> , 2014, 784, 20.	4.5	14
351	Simulated magnetic flows in the solar photosphere. <i>Astronomy and Astrophysics</i> , 2015, 574, A28.	5.1	14
352	ALMA Discovery of Solar Umbral Brightness Enhancement at $\lambda = 3$ mm. <i>Astrophysical Journal Letters</i> , 2017, 841, L20.	8.3	14
353	Fan Loops Observed by IRIS, EIS, and AIA. <i>Astrophysical Journal</i> , 2017, 835, 244.	4.5	14
354	Evershed and Counter-Evershed Flows in Sunspot MHD Simulations. <i>Astrophysical Journal</i> , 2018, 852, 66.	4.5	14
355	Temporal evolution of arch filaments as seen in He I 10 830 Å... <i>Astronomy and Astrophysics</i> , 2018, 617, A55.	5.1	14
356	Shock wave driven by an expanding system of loops. <i>Astronomy and Astrophysics</i> , 2004, 424, 1039-1048.	5.1	14
357	Capturing transient plasma flows and jets in the solar corona. <i>Astronomy and Astrophysics</i> , 2021, 656, L13.	5.1	14
358	Waves in solar magnetic flux tubes: the observational signature of undamped longitudinal tube waves. <i>Monthly Notices of the Royal Astronomical Society</i> , 1992, 256, 13-25.	4.4	13
359	Measurement of the full Stokes vector of He I 10830 λ . <i>Solar Physics</i> , 1996, 164, 265-275.	2.5	13
360	Intercalibration of SUMER and CDS on SOHO II SUMER detectors A and B and CDS NIS. <i>Applied Optics</i> , 2001, 40, 6292.	2.1	13

#	ARTICLE	IF	CITATIONS
361	Effect of anisotropic velocity distribution on the linear polarization of coronal lines. <i>Astronomy and Astrophysics</i> , 2003, 412, 271-280.	5.1	13
362	Discriminant analysis of solar bright points and faculae. <i>Astronomy and Astrophysics</i> , 2009, 502, 303-314.	5.1	13
363	Simulation of a flux emergence event and comparison with observations by Hinode. <i>Astronomy and Astrophysics</i> , 2009, 507, L53-L56.	5.1	13
364	GREGOR solar telescope: Design and status. <i>Astronomische Nachrichten</i> , 2010, 331, 624-627.	1.2	13
365	Horizontal flow fields in and around a small active region. <i>Astronomy and Astrophysics</i> , 2016, 596, A3.	5.1	13
366	Measuring the Wilson depression of sunspots using the divergence-free condition of the magnetic field vector. <i>Astronomy and Astrophysics</i> , 2018, 619, A42.	5.1	13
367	Connecting measurements of solar and stellar brightness variations. <i>Astronomy and Astrophysics</i> , 2020, 638, A56.	5.1	13
368	Reconstructing solar irradiance from historical Ca II K observations. <i>Astronomy and Astrophysics</i> , 2021, 656, A104.	5.1	13
369	Inversion of Stokes Profiles. <i>Astrophysics and Space Science Library</i> , 1999, , 281-290.	2.7	13
370	Temporal relation between quiet-Sun transverse fields and the strong flows detected by IMaX/SUNRISE. <i>Astronomy and Astrophysics</i> , 2013, 558, A30.	5.1	13
371	The Solar Ultraviolet Imaging Telescope On-Board Aditya-L1. <i>Current Science</i> , 2017, 113, 616.	0.8	13
372	A solar coronal loop in a box: Energy generation and heating. <i>Astronomy and Astrophysics</i> , 2022, 658, A45.	5.1	13
373	Grand minima of solar activity during the last millennia. <i>Proceedings of the International Astronomical Union</i> , 2011, 7, 372-382.	0.0	12
374	Fitting peculiar spectral profiles in He I 10830 Å.. absorption features. <i>Astronomische Nachrichten</i> , 2016, 337, 1057-1063.	1.2	12
375	Kinematics of Magnetic Bright Features in the Solar Photosphere. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 8.	7.7	12
376	Readdressing the UV solar variability with SATIRE-S: non-LTE effects. <i>Astronomy and Astrophysics</i> , 2019, 631, A178.	5.1	12
377	Forward modelling of Kepler-band variability due to faculae and spots. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 4751-4767.	4.4	12
378	Dependence of UV radiance of the quiet Sun on the solar cycle: Surface magnetic fields as the cause. <i>Astronomy and Astrophysics</i> , 2003, 407, 359-367.	5.1	12

#	ARTICLE	IF	CITATIONS
379	Modelling Short-Term Spectral Irradiance Variations. <i>Space Science Reviews</i> , 2000, 94, 139-144.	8.1	11
380	THE LOCAL DUST FOREGROUNDS IN THE MICROWAVE SKY. I. THERMAL EMISSION SPECTRA. <i>Astrophysical Journal</i> , 2009, 705, 670-682.	4.5	11
381	Probing photospheric magnetic fields with new spectral line pairs. <i>Astronomy and Astrophysics</i> , 2017, 608, A111.	5.1	11
382	Dark Structures in Sunspot Light Bridges. <i>Astrophysical Journal</i> , 2018, 865, 29.	4.5	11
383	Quiet-Sun and Coronal Hole in Mg II k Line as Observed by IRIS. <i>Astrophysical Journal</i> , 2018, 864, 21.	4.5	11
384	The potential of many-line inversions of photospheric spectropolarimetric data in the visible and near UV. <i>Astronomy and Astrophysics</i> , 2019, 622, A36.	5.1	11
385	Superstrong photospheric magnetic fields in sunspot penumbrae. <i>Astronomy and Astrophysics</i> , 2019, 631, A99.	5.1	11
386	Inflection point in the power spectrum of stellar brightness variations. <i>Astronomy and Astrophysics</i> , 2020, 636, A69.	5.1	11
387	How faculae and network relate to sunspots, and the implications for solar and stellar brightness variations. <i>Astronomy and Astrophysics</i> , 2020, 639, A139.	5.1	11
388	Magnetohydrostatic modeling of AR11768 based on a SUNRISE/IMaX vector magnetogram. <i>Astronomy and Astrophysics</i> , 2020, 640, A103.	5.1	11
389	Variability of EUV-spectra from the quiet upper solar atmosphere: Intensity and Doppler shift. <i>Astronomy and Astrophysics</i> , 2003, 403, 725-730.	5.1	11
390	Small-scale dynamo in cool stars. <i>Astronomy and Astrophysics</i> , 2022, 663, A166.	5.1	11
391	A search for sunspot canopies using a vector magnetograph. <i>Solar Physics</i> , 1993, 148, 201-218.	2.5	10
392	Zeeman-split opposite-polarity OH lines in sunspot spectra: Resolution of a puzzle. <i>Astronomy and Astrophysics</i> , 2001, 380, L5-L8.	5.1	10
393	SUMER observations of the inverse Evershed effect in the transition region above a sunspot. <i>Astronomy and Astrophysics</i> , 2008, 491, L5-L8.	5.1	10
394	WHERE THE GRANULAR FLOWS BEND. <i>Astrophysical Journal Letters</i> , 2010, 723, L159-L163.	8.3	10
395	Excitation of vertical kink waves in a solar coronal arcade loop by a periodic driver. <i>Astronomy and Astrophysics</i> , 2010, 512, A76.	5.1	10
396	FIRST HIGH-RESOLUTION IMAGES OF THE SUN IN THE 2796 Å... Mg II k LINE. <i>Astrophysical Journal Letters</i> , 2013, 776, L13.	8.3	10

#	ARTICLE	IF	CITATIONS
397	NONLINEAR FORCE-FREE FIELD MODELING OF THE SOLAR MAGNETIC CARPET AND COMPARISON WITH SDO/HMI AND SUNRISE/IMAX OBSERVATIONS. <i>Astrophysical Journal</i> , 2014, 793, 112.	4.5	10
398	The dark side of solar photospheric G-band bright points. <i>Astronomy and Astrophysics</i> , 2017, 598, A123.	5.1	10
399	Ca II K spectroheliograms for studies of long-term changes in solar irradiance. <i>Proceedings of the International Astronomical Union</i> , 2018, 13, 125-128.	0.0	10
400	Observing and modelling the young solar analogue EK Draconis: starspot distribution, elemental abundances, and evolutionary status. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 3343-3356.	4.4	10
401	Where Have All the Solar-like Stars Gone? Rotation Period Detectability at Various Inclinations and Metallicities. <i>Astrophysical Journal Letters</i> , 2021, 908, L21.	8.3	10
402	A comparison between solar plage and network properties. <i>Astronomy and Astrophysics</i> , 2019, 630, A86.	5.1	10
403	Empirical models of solar magnetic flux-tubes and their non-magnetic surroundings. <i>Astronomy and Astrophysics</i> , 2001, 369, 646-659.	5.1	10
404	Distribution of magnetically confined circumstellar matter in oblique rotators. <i>Astronomy and Astrophysics</i> , 2004, 417, 987-992.	5.1	10
405	Apparent solar radius variations. <i>Astronomy and Astrophysics</i> , 2004, 427, 735-743.	5.1	10
406	Modified p-modes in penumbral filaments?. <i>Astronomy and Astrophysics</i> , 2007, 469, 1155-1161.	5.1	10
407	Limits on gravity-induced depolarization of light from the white dwarf Grw+70°8247. <i>Physical Review D</i> , 1999, 59, .	4.7	9
408	Properties of flux tubes and the relation with solar irradiance variability. <i>Journal of Astrophysics and Astronomy</i> , 2000, 21, 275-282.	1.0	9
409	SUNRISE: High resolution UV/VIS observations of the sun from the stratosphere. <i>Advances in Space Research</i> , 2008, 42, 70-77.	2.6	9
410	The height of chromospheric loops in an emerging flux region. <i>Astronomy and Astrophysics</i> , 2011, 532, A63.	5.1	9
411	WAVES AS THE SOURCE OF APPARENT TWISTING MOTIONS IN SUNSPOT PENUMBRAE. <i>Astrophysical Journal</i> , 2012, 752, 128.	4.5	9
412	The Laschamp geomagnetic excursion featured in nitrate record from EPICA-Dome C ice core. <i>Scientific Reports</i> , 2016, 6, 20235.	3.3	9
413	Observations of solar chromospheric heating at sub-arcsec spatial resolution. <i>Astronomy and Astrophysics</i> , 2018, 617, A128.	5.1	9
414	Solar-cycle irradiance variations over the last four billion years. <i>Astronomy and Astrophysics</i> , 2020, 636, A83.	5.1	9

#	ARTICLE	IF	CITATIONS
415	Coronal Heating and Solar Wind Formation in Quiet Sun and Coronal Holes: A Unified Scenario. <i>Astrophysical Journal</i> , 2021, 908, 28.	4.5	9
416	Modeling Stellar Ca ii H and K Emission Variations. I. Effect of Inclination on the S-index. <i>Astrophysical Journal</i> , 2021, 914, 21.	4.5	9
417	Predictions of Astrometric Jitter for Sun-like Stars. II. Dependence on Inclination, Metallicity, and Active-region Nesting. <i>Astrophysical Journal</i> , 2021, 919, 94.	4.5	9
418	Lines in the wavelength range ?? 4300?6700 ? with large stokes V amplitudes outside sunspots. <i>Solar Physics</i> , 1986, 107, 57-61.	2.5	8
419	Inversion of Stokes vector profiles in terms of a 3-component model. <i>Solar Physics</i> , 1996, 164, 277-290.	2.5	8
420	TRANSPORT OF MAGNETIC FLUX FROM THE CANOPY TO THE INTERNETWORK. <i>Astrophysical Journal</i> , 2011, 729, 136.	4.5	8
421	A retrospective of the GREGOR solar telescope in scientific literature. <i>Astronomische Nachrichten</i> , 2012, 333, 810-815.	1.2	8
422	ADAHeli+: exploring the fast, dynamic Sun in the X-ray, optical, and near-infrared. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2015, 1, 044006.	1.8	8
423	Variation of the Mn%l 539.4 nm line with the solar cycle. <i>Astronomy and Astrophysics</i> , 2016, 587, A33.	5.1	8
424	The Solar Ultraviolet Imaging Telescope onboard Aditya-L1. <i>Proceedings of SPIE</i> , 2016, , .	0.8	8
425	Intensity contrast of solar plage as a function of magnetic flux at high spatial resolution. <i>Astronomy and Astrophysics</i> , 2019, 621, A78.	5.1	8
426	Cancellation of small-scale magnetic features. <i>Astronomy and Astrophysics</i> , 2019, 622, A200.	5.1	8
427	Opacity distribution functions for stellar spectra synthesis. <i>Astronomy and Astrophysics</i> , 2019, 627, A157.	5.1	8
428	On the size distribution of spots within sunspot groups. <i>Astronomy and Astrophysics</i> , 2021, 652, A9.	5.1	8
429	First observations from the SPICE EUV spectrometer on Solar Orbiter. <i>Astronomy and Astrophysics</i> , 2021, 656, A38.	5.1	8
430	The influence of sunspot canopies on magnetic inclination measurements in solar plages. <i>Solar Physics</i> , 1996, 164, 253-264.	2.5	7
431	Models of Solar Total and Spectral Irradiance Variability of Relevance for Climate Studies. <i>Springer Atmospheric Sciences</i> , 2013, , 19-38.	0.3	7
432	Centre-to-limb properties of small, photospheric quiet-Sun jets. <i>Astronomy and Astrophysics</i> , 2015, 574, A95.	5.1	7

#	ARTICLE	IF	CITATIONS
433	Formation of a solar H α filament from orphan penumbrae. <i>Astronomy and Astrophysics</i> , 2016, 589, A31.	5.1	7
434	Moving Magnetic Features Around a Pore. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 13.	7.7	7
435	The influence of NLTE effects in Fe I lines on an inverted atmosphere. <i>Astronomy and Astrophysics</i> , 2021, 647, A46.	5.1	7
436	High-resolution spectro-polarimetry of a flaring sunspot penumbra. <i>Astronomy and Astrophysics</i> , 2009, 505, 771-790.	5.1	7
437	Detection of spatially structured scattering polarization of Sr I 4607.3 Å... with the Fast Solar Polarimeter. <i>Astronomy and Astrophysics</i> , 2018, 619, A179.	5.1	7
438	Fundamental parameters and granulation properties of Alpha Centauri A and B obtained from inversions of their spectra. <i>Astronomy and Astrophysics</i> , 2005, 444, 549-559.	5.1	7
439	PMI: The Photospheric Magnetic Field Imager. <i>Journal of Space Weather and Space Climate</i> , 2020, 10, 54.	3.3	7
440	Solar Disk Center Shows Scattering Polarization in the Sr i 4607 Å... Line. <i>Astrophysical Journal Letters</i> , 2020, 893, L44.	8.3	7
441	SUNRISE: a balloon-borne telescope for high resolution solar observations in the visible and UV. , 2003, , .		6
442	Towards understanding the η Pictoris dust stream. <i>Astronomy and Astrophysics</i> , 2004, 417, 341-352.	5.1	6
443	Usoskin et al. Reply:. <i>Physical Review Letters</i> , 2004, 92, .	7.8	6
444	Gravity-induced birefringence within the framework of Poincaré gauge theory. <i>Physical Review D</i> , 2005, 72, .	4.7	6
445	Spectropolarimetric Evidence for a Siphon Flow along an Emerging Magnetic Flux Tube. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 15.	7.7	6
446	Historical solar Ca II K observations at the Kyoto and Sacramento Peak observatories. <i>Journal of Physics: Conference Series</i> , 2020, 1548, 012007.	0.4	6
447	Predictions of Astrometric Jitter for Sun-like Stars. I. The Model and Its Application to the Sun as Seen from the Ecliptic. <i>Astrophysical Journal</i> , 2021, 908, 223.	4.5	6
448	Sunspot Simulations: Penumbra Formation and the Fluting Instability. <i>Astrophysical Journal</i> , 2021, 907, 102.	4.5	6
449	No universal connection between the vertical magnetic field and the umbra-penumbra boundary in sunspots. <i>Astronomy and Astrophysics</i> , 2020, 639, A106.	5.1	6
450	Quiet-Sun variability observed with SUMER and CDS. <i>Astronomy and Astrophysics</i> , 2002, 385, 257-263.	5.1	6

#	ARTICLE	IF	CITATIONS
451	A comparative study of the contrast of solar magnetic elements in $\text{H}\alpha$ and $\text{H}\beta$. <i>Astronomy and Astrophysics</i> , 2007, 461, 695-695.	5.1	6
452	On the Magnetic Nature of an Exploding Granule as Revealed by Sunrise/IMaX. <i>Astrophysical Journal</i> , 2020, 896, 62.	4.5	6
453	New constraints on gravity-induced birefringence. <i>Physical Review D</i> , 1996, 53, 997-1000.	4.7	5
454	Structure of the Solar Photosphere. <i>Space Science Reviews</i> , 1998, 85, 175-186.	8.1	5
455	Discovery of inward moving magnetic enhancements in sunspot penumbrae. <i>Astronomy and Astrophysics</i> , 2007, 475, 695-700.	5.1	5
456	Overview of the Special Issue on the First Science Results from the Second Flight of Sunrise. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 1.	7.7	5
457	Solar polarimetry in the $\text{D}_{2\lambda}$ line : A novel possibility for a stratospheric balloon. <i>Astronomy and Astrophysics</i> , 2018, 610, A79.	5.1	5
458	The relationship between bipolar magnetic regions and their sunspots. <i>Astronomy and Astrophysics</i> , 2021, 654, A28.	5.1	5
459	Power spectrum of turbulent convection in the solar photosphere. <i>Astronomy and Astrophysics</i> , 2020, 644, A44.	5.1	5
460	A stream of particles from the $\text{P}^{\text{IC}}\text{P}^{\text{IC}}\text{P}^{\text{IC}}$ disc: A possible ejection mechanism. <i>Astronomy and Astrophysics</i> , 2003, 402, L5-L8.	5.1	5
461	DENDROCHRONOLOGY AND RADIOCARBON DATING. <i>Radiocarbon</i> , 2022, 64, 569-588.	1.8	5
462	Does the Sun affect the Earth's climate?. <i>Astronomy and Geophysics</i> , 2007, 48, 3.07-3.07.	0.2	4
463	Towards Long-Term Solar Irradiance Modelling: Network Contrasts from Magneto-Convection Simulations. , 2009, , .		4
464	SUNRISE - Impressions from a successful science flight. <i>Astronomische Nachrichten</i> , 2010, 331, 601-604.	1.2	4
465	The potential of Ca II K observations for solar activity and variability studies. <i>Proceedings of the International Astronomical Union</i> , 2018, 13, 115-120.	0.0	4
466	Connecting the Wilson depression to the magnetic field of sunspots. <i>Astronomy and Astrophysics</i> , 2020, 635, A202.	5.1	4
467	Radiative Transfer with Opacity Distribution Functions: Application to Narrowband Filters. <i>Astrophysical Journal, Supplement Series</i> , 2021, 255, 3.	7.7	4
468	Slow magneto-acoustic waves in simulations of a solar plage region carry enough energy to heat the chromosphere. <i>Astronomy and Astrophysics</i> , 2021, 652, A43.	5.1	4

#	ARTICLE	IF	CITATIONS
469	The High Resolution Telescope (HRT) of the Polarimetric and Helioseismic Imager (PHI) onboard Solar Orbiter. , 2018, , .		4
470	Similarities of magnetoconvection in the umbra and in the penumbra of sunspots. Astronomy and Astrophysics, 2021, 655, A61.	5.1	4
471	The magnetic fine structure of the Sun's polar region as revealed by Sunrise. Astronomy and Astrophysics, 2020, 644, A86.	5.1	4
472	Inflection point in the power spectrum of stellar brightness variations. Astronomy and Astrophysics, 2020, 642, A225.	5.1	4
473	Multiwavelength Mitigation of Stellar Activity in Astrometric Planet Detection. Astronomical Journal, 2022, 163, 205.	4.7	4
474	Temporal Evolution of Artificial Solar Granules. Space Science Reviews, 1998, 85, 261-268.	8.1	3
475	Cyclic evolution of sunspots: Gleaning new results from old data. Journal of Astrophysics and Astronomy, 2000, 21, 163-165.	1.0	3
476	SoHO/EIT Observation of a Coronal Inflow. Proceedings of the International Astronomical Union, 2004, 2004, 133-134.	0.0	3
477	Spectropolarimetric analysis of 3D MHD sunspot simulations. Astronomische Nachrichten, 2010, 331, 567-569.	1.2	3
478	Small-Scale Solar Magnetic Fields. Space Sciences Series of ISSI, 2008, , 275-315.	0.0	3
479	The solar atmosphere. , 2001, , 1065-1088.		3
480	The Upper Photosphere and Lower Chromosphere of Small-Scale Magnetic Features. , 1994, , 91-98.		3
481	The Maximum Entropy Limit of Small-scale Magnetic Field Fluctuations in the Quiet Sun. Astrophysical Journal, Supplement Series, 2017, 233, 5.	7.7	3
482	Noise reduction in helioseismic power spectra by non-orthogonal wavelets. Astronomy and Astrophysics, 2001, 379, 1039-1044.	5.1	2
483	Structure of the solar chromosphere. Proceedings of the International Astronomical Union, 2004, 2004, 195-202.	0.0	2
484	Plasma dynamics of a prominence associated coronal mass ejection. Proceedings of the International Astronomical Union, 2004, 2004, 401-402.	0.0	2
485	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
486	Reply to comment by P. Foukal on "A homogeneous database of sunspot areas covering more than 130 years". Journal of Geophysical Research, 2010, 115, .	3.3	2

#	ARTICLE	IF	CITATIONS
487	Solar extreme ultraviolet variability of the quiet Sun. <i>Astronomy and Astrophysics</i> , 2015, 581, A51.	5.1	2
488	How rare are counter Evershed flows?. <i>Astronomy and Astrophysics</i> , 2021, 651, L1.	5.1	2
489	The Magnetic Field from the Solar Interior to the Heliosphere. <i>Astrophysics and Space Science Library</i> , 2004, , 373-395.	2.7	2
490	4.1.2.4 Faculae and plague. <i>Landolt-Börnstein - Group VI Astronomy and Astrophysics</i> , 2009, , 153-164.	0.1	2
491	Magnetic Field Measurements on Cool Stars. <i>Reviews in Modern Astronomy</i> , 1991, , 208-232.	0.4	2
492	Reconstruction of Past Solar Irradiance. <i>Space Sciences Series of ISSI</i> , 2000, , 127-138.	0.0	2
493	Magnetized supersonic downflows in the chromosphere. <i>Astronomy and Astrophysics</i> , 2022, 661, A122.	5.1	2
494	Irradiance Effects of Small-Scale Magnetic Fields on the Sun. <i>International Astronomical Union Colloquium</i> , 1994, 143, 226-235.	0.1	1
495	Solar and stellar magnetic flux tubes. <i>Symposium - International Astronomical Union</i> , 1996, 176, 201-216.	0.1	1
496	Dynamics of flux tubes in the solar atmosphere: Observations. , 1997, , 49-73.		1
497	Solar magnetic fields: an introduction. , 1998, , 41-75.		1
498	Signatures of Coronal Hole Spectra Between 660 Å... and 1460 Å... Measured with Sumer on Soho. <i>Space Science Reviews</i> , 1999, 87, 299-302.	8.1	1
499	Variations of the Solar Spectral Irradiance. <i>Symposium - International Astronomical Union</i> , 2001, 203, 66-77.	0.1	1
500	Intercalibration of SUMER and CDS on SOHO II SUMER detectors A and B and CDS NIS: erratum. <i>Applied Optics</i> , 2002, 41, 1433.	2.1	1
501	Intercalibration of SUMER and CDS on SOHO III SUMER and CDS-GIS. <i>Applied Optics</i> , 2003, 42, 657.	2.1	1
502	On the relation between photospheric magnetic field and chromospheric emission in the quiet Sun. <i>Proceedings of the International Astronomical Union</i> , 2008, 4, 185-190.	0.0	1
503	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
504	The Sun's Atmosphere. , 2019, , 59-85.		1

#	ARTICLE	IF	CITATIONS
505	Correction of atmospheric stray light in restored slit spectra. <i>Astronomy and Astrophysics</i> , 2021, 653, A17.	5.1	1
506	Theoretical Modeling for the STEREO Mission. , 2008, , 565-604.		1
507	Solar Variability of Possible Relevance for Planetary Climates. , 2006, , 25-37.		1
508	The Observational Signature of Flux Tube Waves and an Upper Limit on the Energy Flux Transported by them. , 1990, , 259-262.		1
509	The Wave-Front Correction System for the Sunrise Balloon-Borne Solar Observatory. , 2010, , 103-123.		1
510	The Influence of Sunspot Canopies on Magnetic Inclination Measurements in Solar Plages. , 1996, , 253-264.		1
511	Structure of the Solar Photosphere. <i>Space Sciences Series of ISSI</i> , 1998, , 175-186.	0.0	1
512	Solar Magnetoconvection and Small-Scale Dynamo. <i>Space Sciences Series of ISSI</i> , 2015, , 275-316.	0.0	1
513	Commission 12: Solar Radiation and Structure (Radiation et Structure Solaires). <i>Transactions of the International Astronomical Union</i> , 2000, 24, 73-76.	0.0	0
514	Division II: The Sun and Heliosphere: (Le Soleil et Heliosphere). <i>Transactions of the International Astronomical Union</i> , 2000, 24, 65-66.	0.0	0
515	Statistical Features of the Quiet Sun in EUV. <i>Symposium - International Astronomical Union</i> , 2001, 203, 416-418.	0.1	0
516	Temporal evolution of chromospheric downflows. <i>Proceedings of the International Astronomical Union</i> , 2004, 2004, 279-280.	0.0	0
517	Solar irradiance variability. <i>Proceedings of the International Astronomical Union</i> , 2006, 2, 279-279.	0.0	0
518	How reliable are the large temperature anisotropies in polar coronal holes?. <i>Proceedings of the International Astronomical Union</i> , 2006, 2, 185.	0.0	0
519	The nature of running penumbral waves revealed. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 55-58.	0.0	0
520	Magnetic geometries of Sun-like stars: exploring the mass-rotation plane. <i>Proceedings of the International Astronomical Union</i> , 2008, 4, 441-442.	0.0	0
521	Small-scale flux emergence events observed by Sunrise/IMaX. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 140-142.	0.0	0
522	Chromosphere above sunspots as seen at millimeter wavelengths. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 408-411.	0.0	0

#	ARTICLE	IF	CITATIONS
523	Status and perspectives of the CAST experiment. Journal of Physics: Conference Series, 2012, 375, 022001.	0.4	0
524	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
525	Fast downflows in a chromospheric filament. Proceedings of the International Astronomical Union, 2019, 15, 454-457.	0.0	0
526	Tiâ€“I lines at 2.2 Î¼m as probes of the cooler regions of sunspots. Astronomy and Astrophysics, 2021, 653, A91.	5.1	0
527	Modelling Short-Term Spectral Irradiance Variations. Space Sciences Series of ISSI, 2000, , 139-144.	0.0	0
528	Properties of Flux Tubes and the Relation with Solar Irradiance Variability. International Astronomical Union Colloquium, 2000, 179, 275-282.	0.1	0
529	Comparison of Quiet-Sun Radiances Measured by CDS and SUMER on SOHO. , 2001, , 63-66.		0
530	The sun's variable spectrum and its terrestrial effects. Astronomical and Astrophysical Transactions, 2001, 20, 467-474.	0.2	0
531	4.1.2.3 Sunspots. Landolt-Bâ€“nstein - Group VI Astronomy and Astrophysics, 2009, , 141-152.	0.1	0
532	4.1.2.2 Solar activity cycle. Landolt-Bâ€“nstein - Group VI Astronomy and Astrophysics, 2009, , 124-140.	0.1	0
533	The Sunrise Mission. , 2010, , 1-34.		0
534	The Imaging Magnetograph eXperiment (IMaX) for the Sunrise Balloon-Borne Solar Observatory. , 2010, , 57-102.		0
535	The Filter Imager SuFI and the Image Stabilization and Light Distribution System ISLiD of the Sunrise Balloon-Borne Observatory: Instrument Description. , 2010, , 35-55.		0
536	Manifestations of Solar Magnetic Fields. , 1998, , 857-860.		0
537	On the Expansion of Large and Small Flux Tubes with Height. Astrophysics and Space Science Library, 1999, , 397-408.	2.7	0
538	Magnetic Flux Transport at the Solar Surface. Space Sciences Series of ISSI, 2015, , 491-523.	0.0	0
539	Helioseismology with Solar Orbiter. Space Sciences Series of ISSI, 2017, , 257-289.	0.0	0