

Manuel Collados

List of Publications by Year in descending order

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168
papers

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citations

71102

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168
docs citations

168
times ranked

1316
citing authors

#	ARTICLE	IF	CITATIONS
1	The Imaging Magnetograph eXperiment (IMaX) for the Sunrise Balloon-Borne Solar Observatory. Solar Physics, 2011, 268, 57-102.	2.5	229
2	Three-dimensional magnetic field topology in a region of solar coronal heating. Nature, 2003, 425, 692-695.	27.8	151
3	Quiet-Sun inter-network magnetic fields observed in the infrared. Astronomy and Astrophysics, 2003, 408, 1115-1135.	5.1	144
4	Numerical Modeling of Magnetohydrodynamic Wave Propagation and Refraction in Sunspots. Astrophysical Journal, 2006, 653, 739-755.	4.5	142
5	HEATING OF THE MAGNETIZED SOLAR CHROMOSPHERE BY PARTIAL IONIZATION EFFECTS. Astrophysical Journal, 2012, 747, 87.	4.5	140
6	Spectropolarimetric Investigation of the Propagation of Magnetoacoustic Waves and Shock Formation in Sunspot Atmospheres. Astrophysical Journal, 2006, 640, 1153-1162.	4.5	138
7	Selective absorption processes as the origin of puzzling spectral line polarization from the Sun. Nature, 2002, 415, 403-406.	27.8	137
8	The 1.5 meter solar telescope GREGOR. Astronomische Nachrichten, 2012, 333, 796-809.	1.2	131
9	Oscillations and Waves in Sunspots. Living Reviews in Solar Physics, 2015, 12, 1.	22.0	123
10	Two magnetic components in sunspot penumbrae. Astronomy and Astrophysics, 2004, 427, 319-334.	5.1	122
11	Optimum modulation and demodulation matrices for solar polarimetry. Applied Optics, 2000, 39, 1637.	2.1	105
12	MAGNETO-ACOUSTIC WAVES IN SUNSPOTS: FIRST RESULTS FROM A NEW THREE-DIMENSIONAL NONLINEAR MAGNETOHYDRODYNAMIC CODE. Astrophysical Journal, 2010, 719, 357-377.	4.5	102
13	Partially Ionized Plasmas in Astrophysics. Space Science Reviews, 2018, 214, 1.	8.1	102
14	Spectropolarimetry in a sunspot penumbra. Astronomy and Astrophysics, 2002, 381, 668-682.	5.1	93
15	GRIS: The GREGOR Infrared Spectrograph. Astronomische Nachrichten, 2012, 333, 872-879.	1.2	93
16	Fluid description of multi-component solar partially ionized plasma. Physics of Plasmas, 2014, 21, .	1.9	84
17	Nonlinear Numerical Simulations of Magneto-Acoustic Wave Propagation in Small-Scale Flux Tubes. Solar Physics, 2008, 251, 589-611.	2.5	82
18	Channeling 5 Minute Photospheric Oscillations into the Solar Outer Atmosphere through Small-Scale Vertical Magnetic Flux Tubes. Astrophysical Journal, 2008, 676, L85-L88.	4.5	79

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19	MULTI-LAYER STUDY OF WAVE PROPAGATION IN SUNSPOTS. <i>Astrophysical Journal</i> , 2010, 722, 131-144.	4.5	78
20	Field-aligned Evershed flows in the photosphere of a sunspot penumbra. <i>Astronomy and Astrophysics</i> , 2003, 403, L47-L50.	5.1	73
21	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
22	Determination of the Magnetic Field Vector via the Hanle and Zeeman Effects in the He I 10830 Multiplet: Evidence for Nearly Vertical Magnetic Fields in a Polar Crown Prominence. <i>Astrophysical Journal</i> , 2006, 642, 554-561.	4.5	72
23	On the fine structure of sunspot penumbrae. <i>Astronomy and Astrophysics</i> , 2005, 436, 333-345.	5.1	69
24	The Hanle and Zeeman Effects in Solar Spicules: A Novel Diagnostic Window on Chromospheric Magnetism. <i>Astrophysical Journal</i> , 2005, 619, L191-L194.	4.5	67
25	Low-lying magnetic loops in the solar internetwork. <i>Astronomy and Astrophysics</i> , 2007, 469, L39-L42.	5.1	66
26	Cold, Supersonic Evershed Downflows in a Sunspot. <i>Astrophysical Journal</i> , 2001, 549, L139-L142.	4.5	65
27	A polarization model for the German Vacuum Tower Telescope from in situ and laboratory measurements. <i>Astronomy and Astrophysics</i> , 2005, 443, 1047-1053.	5.1	64
28	WAVE PROPAGATION AND SHOCK FORMATION IN DIFFERENT MAGNETIC STRUCTURES. <i>Astrophysical Journal</i> , 2009, 692, 1211-1220.	4.5	61
29	Oscillations in the Photosphere of a Sunspot Umbra from the Inversion of Infrared Stokes Profiles. <i>Astrophysical Journal</i> , 2000, 534, 989-996.	4.5	61
30	Observation of Convective Collapse and Upward-moving Shocks in the Quiet Sun. <i>Astrophysical Journal</i> , 2001, 560, 1010-1019.	4.5	59
31	On the validity of the 630 nm Fe I lines for magnetometry of the quiet Sun. <i>Astronomy and Astrophysics</i> , 2006, 456, 1159-1164.	5.1	58
32	The Influence of Coronal EUV Irradiance on the Emission in the He I 10830 Å... and D ₃ Multiplets. <i>Astrophysical Journal</i> , 2008, 677, 742-750.	4.5	56
33	Rayleigh-Taylor instability in prominences from numerical simulations including partial ionization effects. <i>Astronomy and Astrophysics</i> , 2014, 565, A45.	5.1	56
34	Internetwork magnetic field distribution from simultaneous 1.56 μm and 630 nm observations. <i>Astronomy and Astrophysics</i> , 2008, 477, 953-965.	5.1	56
35	Three-dimensional simulations of solar magneto-convection including effects of partial ionization. <i>Astronomy and Astrophysics</i> , 2018, 618, A87.	5.1	54
36	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

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37	European Solar Telescope: Progress status. <i>Astronomische Nachrichten</i> , 2010, 331, 615-619.	1.2	50
38	Magnetic flux in the internetwork quiet Sun. <i>Astronomy and Astrophysics</i> , 2005, 436, L27-L30.	5.1	50
39	On the Stokes V Amplitude Ratio as an Indicator of the Field Strength in the Solar Internetwork. <i>Astrophysical Journal</i> , 2007, 659, 1726-1735.	4.5	49
40	The GREGOR Fabry-Pérot Interferometer. <i>Astronomische Nachrichten</i> , 2012, 333, 880-893.	1.2	46
41	Flux-Tube Model Atmospheres and Stokes [ITAL]V[/ITAL] Zero-crossing Wavelengths. <i>Astrophysical Journal</i> , 1997, 478, L45-L48.	4.5	41
42	Structure of Plage Flux Tubes from the Inversion of Stokes Spectra. I. Spatially Averaged Stokes and V Profiles. <i>Astrophysical Journal</i> , 2000, 535, 489-500.	4.5	41
43	Three-dimensional structure of a sunspot light bridge. <i>Astronomy and Astrophysics</i> , 2016, 596, A59.	5.1	41
44	Sunspot seismic halos generated by fast MHD wave refraction. <i>Astronomy and Astrophysics</i> , 2009, 506, L5-L8.	5.1	40
45	Magneto-hydrostatic Sunspot Models from Deep Subphotospheric to Chromospheric Layers. <i>Astrophysical Journal</i> , 2008, 689, 1379-1387.	4.5	38
46	THEORETICAL MODELING OF PROPAGATION OF MAGNETOACOUSTIC WAVES IN MAGNETIC REGIONS BELOW SUNSPOTS. <i>Astrophysical Journal</i> , 2009, 694, 411-424.	4.5	37
47	Magnetoacoustic Waves in Sunspots. <i>Astrophysical Journal</i> , 2003, 588, 606-619.	4.5	36
48	The energy of waves in the photosphere and lower chromosphere. <i>Astronomy and Astrophysics</i> , 2009, 507, 453-467.	5.1	35
49	Magneto-hydrodynamic wave propagation from the subphotosphere to the corona in an arcade-shaped magnetic field with a null point. <i>Astronomy and Astrophysics</i> , 2015, 577, A70.	5.1	35
50	Numerical simulations of quiet Sun magnetic fields seeded by the Biermann battery. <i>Astronomy and Astrophysics</i> , 2017, 604, A66.	5.1	35
51	ON THE ROBUSTNESS OF THE PENDULUM MODEL FOR LARGE-AMPLITUDE LONGITUDINAL OSCILLATIONS IN PROMINENCES. <i>Astrophysical Journal</i> , 2016, 817, 157.	4.5	34
52	MAGNETOACOUSTIC WAVE ENERGY FROM NUMERICAL SIMULATIONS OF AN OBSERVED SUNSPOT UMBRA. <i>Astrophysical Journal</i> , 2011, 735, 65.	4.5	33
53	Rayleigh-Taylor instability in partially ionized compressible plasmas: One fluid approach. <i>Astronomy and Astrophysics</i> , 2014, 564, A97.	5.1	33
54	An introductory guide to fluid models with anisotropic temperatures. Part 1. CGL description and collisionless fluid hierarchy. <i>Journal of Plasma Physics</i> , 2019, 85, .	2.1	32

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55	An Hermitian Method for the Solution of Polarized Radiative Transfer Problems. <i>Astrophysical Journal</i> , 1998, 506, 805-817.	4.5	31
56	MuSiCa: THE MULTI-SLIT IMAGE SLICER FOR THE EST SPECTROGRAPH. <i>Journal of Astronomical Instrumentation</i> , 2013, 02, .	1.5	29
57	Deep probing of the photospheric sunspot penumbra: no evidence of field-free gaps. <i>Astronomy and Astrophysics</i> , 2016, 596, A2.	5.1	29
58	Multiline Spectropolarimetry of the Quiet Sun at 5250 and 6302 Å. <i>Astrophysical Journal</i> , 2008, 674, 596-606.	4.5	27
59	Recent advancements in the EST project. <i>Advances in Space Research</i> , 2019, 63, 1389-1395.	2.6	27
60	Evidence for Fine Structure in the Chromospheric Umbral Oscillation. <i>Astrophysical Journal</i> , 2005, 635, 670-673.	4.5	25
61	A Near-Infrared Line of Mn II as a Diagnostic Tool of the Average Magnetic Energy in the Solar Photosphere. <i>Astrophysical Journal</i> , 2007, 659, 829-847.	4.5	25
62	OBSERVATIONAL DETECTION OF DRIFT VELOCITY BETWEEN IONIZED AND NEUTRAL SPECIES IN SOLAR PROMINENCES. <i>Astrophysical Journal</i> , 2016, 823, 132.	4.5	25
63	Inference of magnetic fields in the very quiet Sun. <i>Astronomy and Astrophysics</i> , 2016, 596, A5.	5.1	24
64	Understanding internetwork magnetic fields as determined from visible and infrared spectral lines. <i>Astronomy and Astrophysics</i> , 2003, 406, 357-362.	5.1	24
65	Active region fine structure observed at 0.08 arcsec resolution. <i>Astronomy and Astrophysics</i> , 2016, 596, A7.	5.1	23
66	Solar Site Survey for the Advanced Technology Solar Telescope. I. Analysis of the Seeing Data. <i>Publications of the Astronomical Society of the Pacific</i> , 2005, 117, 1296-1305.	3.1	21
67	Magnetic fields of opposite polarity in sunspot penumbrae. <i>Astronomy and Astrophysics</i> , 2016, 596, A4.	5.1	21
68	Upper chromospheric magnetic field of a sunspot penumbra: observations of fine structure. <i>Astronomy and Astrophysics</i> , 2016, 596, A8.	5.1	20
69	Inversion of Stokes Profiles from Solar Magnetic Elements. <i>Astrophysical Journal</i> , 2000, 535, 475-488.	4.5	19
70	MAGNETIC AND DYNAMICAL PHOTOSPHERIC DISTURBANCES OBSERVED DURING AN M3.2 SOLAR FLARE. <i>Astrophysical Journal Letters</i> , 2015, 799, L25.	8.3	19
71	An introductory guide to fluid models with anisotropic temperatures. Part 2. Kinetic theory, Padé approximants and Landau fluid closures. <i>Journal of Plasma Physics</i> , 2019, 85, .	2.1	19
72	CCD photometry of stars in the old open cluster NGC 188. <i>Astronomical Journal</i> , 1990, 99, 261.	4.7	18

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73	European Solar Telescope: project status. Proceedings of SPIE, 2010, , .	0.8	17
74	Variation in sunspot properties between 1999 and 2014. Astronomy and Astrophysics, 2015, 578, A43.	5.1	17
75	The European Solar Telescope (EST). Proceedings of SPIE, 2016, , .	0.8	17
76	Some properties of an isolated sunspot. Astronomy and Astrophysics, 2005, 429, 705-711.	5.1	17
77	Site testing for the Advanced Technology Solar Telescope. , 2006, 6267, 621.		16
78	ON THE MAGNETISM AND DYNAMICS OF PROMINENCE LEGS HOSTING TORNADOES. Astrophysical Journal, 2016, 825, 119.	4.5	16
79	Stratification with Optical Depth of the 5 Minute Oscillation through the Solar Photosphere. Astrophysical Journal, 1997, 488, 462-472.	4.5	15
80	Joint action of Hall and ambipolar effects in 3D magneto-convection simulations of the quiet Sun. Astronomy and Astrophysics, 2020, 642, A220.	5.1	15
81	A statistical study of the geometrical Wilson effect. Solar Physics, 1987, 112, 281-293.	2.5	14
82	European Solar Telescope (EST): project status. Proceedings of SPIE, 2008, , .	0.8	14
83	The polarization optics for the European Solar Telescope (EST). , 2010, , .		14
84	Temporal evolution of arch filaments as seen in He I 10 830 Å... Astronomy and Astrophysics, 2018, 617, A55.	5.1	14
85	High-resolution imaging and near-infrared spectroscopy of penumbral decay. Astronomy and Astrophysics, 2018, 614, A2.	5.1	14
86	GREGOR solar telescope: Design and status. Astronomische Nachrichten, 2010, 331, 624-627.	1.2	13
87	Horizontal flow fields in and around a small active region. Astronomy and Astrophysics, 2016, 596, A3.	5.1	13
88	Where are the solar magnetic poles?. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 453, L69-L72.	3.3	12
89	Fitting peculiar spectral profiles in He I 10830 Å... absorption features. Astronomische Nachrichten, 2016, 337, 1057-1063.	1.2	12
90	Measurements of Photospheric and Chromospheric Magnetic Field Structures Associated with Chromospheric Heating over a Solar Plage Region. Astrophysical Journal, 2021, 921, 39.	4.5	12

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91	Simulated interaction of magnetohydrodynamic shock waves with a complex network-like region. <i>Astronomy and Astrophysics</i> , 2016, 590, L3.	5.1	11
92	Two-dimensional simulations of coronal rain dynamics. <i>Astronomy and Astrophysics</i> , 2020, 634, A36.	5.1	11
93	GREGOR telescope: start of commissioning. <i>Proceedings of SPIE</i> , 2010, , .	0.8	10
94	Evershed flow observed in neutral and singly ionized iron lines. <i>Astronomy and Astrophysics</i> , 2015, 584, A66.	5.1	10
95	Rayleigh-Taylor instabilities with sheared magnetic fields in partially ionised plasmas. <i>Astronomy and Astrophysics</i> , 2018, 609, A23.	5.1	10
96	Generalized Fluid Models of the Braginskii Type. <i>Astrophysical Journal, Supplement Series</i> , 2022, 260, 26.	7.7	10
97	High-frequency waves in the corona due to null points. <i>Astronomy and Astrophysics</i> , 2017, 602, A43.	5.1	9
98	Signatures of the impact of flare-ejected plasma on the photosphere of a sunspot light bridge. <i>Astronomy and Astrophysics</i> , 2017, 608, A97.	5.1	9
99	Temporal evolution of small-scale internetwork magnetic fields in the solar photosphere. <i>Astronomy and Astrophysics</i> , 2021, 647, A182.	5.1	9
100	Granulation deformation near and in sunspot regions. <i>Solar Physics</i> , 1986, 105, 17-25.	2.5	8
101	Solar site testing for the Advanced Technology Solar Telescope. , 2004, 5489, 122.		8
102	Error propagation in polarimetric demodulation. <i>Applied Optics</i> , 2008, 47, 2541.	2.1	8
103	A full-Stokes polarimeter for the GREGOR Fabry-Perot interferometer. <i>Proceedings of the International Astronomical Union</i> , 2008, 4, 665-666.	0.0	8
104	A retrospective of the GREGOR solar telescope in scientific literature. <i>Astronomische Nachrichten</i> , 2012, 333, 810-815.	1.2	8
105	Dislocations in Magnetohydrodynamic Waves in a Stellar Atmosphere. <i>Physical Review Letters</i> , 2013, 111, 081103.	7.8	8
106	Penumbral thermal structure below the visible surface. <i>Astronomy and Astrophysics</i> , 2017, 601, L8.	5.1	8
107	Magnetic topology of the north solar pole. <i>Astronomy and Astrophysics</i> , 2018, 616, A46.	5.1	8
108	Diagnostic capabilities of spectropolarimetric observations for understanding solar phenomena. <i>Astronomy and Astrophysics</i> , 2021, 652, A161.	5.1	8

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109	An example of the cancellation of magnetic fields during the decay of an active region. <i>Solar Physics</i> , 1989, 124, 219-226.	2.5	7
110	Detection of Polarization from the E 4 - A 4 System of FeH in Sunspot Spectra. <i>Astrophysical Journal</i> , 2004, 603, L125-L128.	4.5	7
111	Site-seeing measurements for the European Solar Telescope. , 2010, , .		7
112	A HIGH RESOLUTION INTEGRAL FIELD SPECTROGRAPH FOR THE EUROPEAN SOLAR TELESCOPE. <i>Journal of Astronomical Instrumentation</i> , 2013, 02, 1350007.	1.5	7
113	MuSiCa image slicer prototype at 1.5-m GREGOR solar telescope. , 2014, , .		7
114	Two numerical processes for the calibration of photographic plates. <i>Applied Optics</i> , 1984, 23, 2827.	2.1	6
115	Penumbral finestructure: need for larger telescopes. <i>Astronomische Nachrichten</i> , 2001, 322, 367-370.	1.2	6
116	Current concept for the 4m European Solar Telescope (EST) optical design. <i>Proceedings of SPIE</i> , 2010, , .	0.8	6
117	Influence of ambipolar and Hall effects on vorticity in three-dimensional simulations of magneto-convection. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200176.	3.4	6
118	Photospheric magnetic topology of a north polar region. <i>Astronomy and Astrophysics</i> , 2020, 635, A210.	5.1	6
119	Lagrangian and Eulerian Stratifications of Acoustic Oscillations through the Solar Photosphere. <i>Astrophysical Journal</i> , 2001, 547, 491-502.	4.5	5
120	Observation and Modeling of Anomalous CN Polarization Profiles Produced by the Molecular Paschen-Back Effect in Sunspots. <i>Astrophysical Journal</i> , 2005, 623, L57-L61.	4.5	5
121	Evolution of Stokes V area asymmetry related to a quiet Sun cancellation observed with GRIS/IFU. <i>Astronomy and Astrophysics</i> , 2020, 634, A131.	5.1	5
122	Structure of a simple sunspot from the inversion of IR spectral data. <i>Astronomische Nachrichten</i> , 2003, 324, 388-389.	1.2	4
123	IMax: a visible magnetograph for SUNRISE. , 2003, , .		4
124	Progress report of the 1.5 m solar telescope GREGOR. , 2004, , .		4
125	A high-resolution spectrograph for the solar telescope GREGOR. <i>Proceedings of SPIE</i> , 2008, , .	0.8	4
126	Spectrograph capabilities of the European Solar Telescope. , 2010, , .		4

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127	A numerical strategy to compute optical parameters in turbulent flow: Application to telescopes. Computers and Fluids, 2010, 39, 87-98.	2.5	4
128	On the nature of transverse coronal waves revealed by wavefront dislocations. Astronomy and Astrophysics, 2015, 579, A127.	5.1	4
129	Infrared spectropolarimetry of sunspots. Astronomische Nachrichten, 2002, 323, 254-256.	1.2	3
130	Liquid crystal optical retarders for IMAx to fly with SUNRISE. , 2003, 4843, 30.		3
131	Detailed design of the imaging magnetograph experiment (IMaX): a visible imager magnetograph for the Sunrise mission. , 2006, 6265, 1387.		3
132	Feasibility study of high-resolution integral-field spectrographs for EST with multislit and multi-wavelength capabilities. , 2010, , .		3
133	Solar adaptive optics: specificities, lessons learned, and open alternatives. , 2016, , .		3
134	Daytime turbulence profiling for EST and its impact in the solar MCAO system design. , 2016, , .		3
135	Comparative study of Shack-Hartmann configurations for atmospheric turbulence reconstructions in solar adaptive optics. Optics and Lasers in Engineering, 2022, 158, 107157.	3.8	3
136	Velocity fields associated with the magnetic component of solar faculae. Astrophysics and Space Science, 1990, 170, 31-39.	1.4	2
137	Stratification of the 5-min oscillation through the solar photosphere. Solar Physics, 1997, 172, 77-83.	2.5	2
138	The new 1.5 solar telescope GREGOR: progress report and results of performance tests. , 2005, 5901, 75.		2
139	The new 1.5m solar telescope GREGOR: first light and start of commissioning. , 2006, , .		2
140	Preliminary design of a multi-slit image slicer for EST. , 2012, , .		2
141	Full Stokes observations in the He λ 1083 nm spectral region covering an M3.2 flare. Proceedings of the International Astronomical Union, 2014, 10, 73-78.	0.0	2
142	An LTE Code for the Inversion of Stokes Spectra from Solar Magnetic Elements. Astrophysics and Space Science Library, 1999, , 271-280.	2.7	2
143	Commissioning tests of an Integral Field Unit (IFU) at GREGOR solar telescope. , 2018, , .		2
144	Photometry and spectroscopy of the solar granulation along the polar axis and equator. Astrophysics and Space Science, 1990, 170, 23-30.	1.4	1

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145	Numerical test of a new V-profile inversion technique. <i>Astrophysics and Space Science</i> , 1990, 170, 113-116.	1.4	1
146	Fried's parameter derived from observations of granulation outside the disk centre. <i>Astrophysics and Space Science</i> , 1990, 170, 155-159.	1.4	1
147	Data handling and control for the European Solar Telescope. <i>Proceedings of SPIE</i> , 2010, , .	0.8	1
148	Performance simulations for the conceptual design of the European Solar Telescope (EST). <i>Proceedings of SPIE</i> , 2011, , .	0.8	1
149	Gregor@night: The future high-resolution stellar spectrograph for the GREGOR solar telescope. <i>Astronomische Nachrichten</i> , 2012, 333, 901-910.	1.2	1
150	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
151	Opto-mechanical design of an image slicer for the GRIS spectrograph at GREGOR. , 2016, , .		1
152	The Hermitian Solution of the Radiative Transfer Equation for Non-LTE Problems. <i>Astrophysics and Space Science Library</i> , 1999, , 231-240.	2.7	1
153	Tracking Downflows from the Chromosphere to the Photosphere in a Solar Arch Filament System. <i>Astrophysical Journal</i> , 2020, 890, 82.	4.5	1
154	Polarimetric characterization of segmented mirrors. <i>Applied Optics</i> , 0, , .	1.8	1
155	Photometry of light-bridges in sunspots. , 1985, , 299-303.		0
156	On the age dependence of the asymmetry of penumbrae of sunspots. <i>Solar Physics</i> , 1988, 117, 199-202.	2.5	0
157	Facular points and small-scale magnetic elements. <i>Astrophysics and Space Science</i> , 1990, 170, 9-16.	1.4	0
158	Magnetic Flux Determination in Late-Type Dwarfs. <i>International Astronomical Union Colloquium</i> , 1991, 130, 417-419.	0.1	0
159	A Multiline Method to Determine Stellar Magnetic Fields. <i>International Astronomical Union Colloquium</i> , 1993, 137, 196-198.	0.1	0
160	The structure of the penumbra. <i>Astronomische Nachrichten</i> , 2003, 324, 390-390.	1.2	0
161	Magneto-acoustic waves in sunspots from observations and numerical simulations. <i>Journal of Physics: Conference Series</i> , 2011, 271, 012040.	0.4	0
162	Conceptual design of the data handling system for the European Solar Telescope. , 2012, , .		0

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163	Multi-purpose grating spectrograph for the 4-meter European Solar Telescope. Proceedings of SPIE, 2012, , .	0.8	0
164	Rayleighâ€“Taylor instability in partially ionized prominence plasma. Proceedings of the International Astronomical Union, 2013, 8, 90-93.	0.0	0
165	Local seeing determination by thermal-CFD analysis to optimize the European Solar Telescope image quality. , 2016, , .		0
166	Flows along arch filaments observed in the GRIS â€“very fast spectroscopic modeâ€“TM. Proceedings of the International Astronomical Union, 2016, 12, 28-33.	0.0	0
167	The Imaging Magnetograph eXperiment (IMaX) for the Sunrise Balloon-Borne Solar Observatory. , 2010, , 57-102.		0
168	Nonlinear Numerical Simulations of Magneto-Acoustic Wave Propagation in Small-Scale Flux Tubes. , 2008, , 587-609.		0