Manuel Collados

List of Publications by Year
in descending order

168 papers	5,049 citations	71102 41 h-index	102487 66 g-index
168 all docs	168 docs citations	168 times ranked	1316 citing authors

#	Article	IF	Citations
1	Generalized Fluid Models of the Braginskii Type. Astrophysical Journal, Supplement Series, 2022, 260, 26.	7.7	10
2	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
3	Temporal evolution of small-scale internetwork magnetic fields in the solar photosphere. Astronomy and Astrophysics, 2021, 647, A182.	5.1	9
4	Diagnostic capabilities of spectropolarimetric observations for understanding solar phenomena. Astronomy and Astrophysics, 2021, 652, A161.	5.1	8
5	Influence of ambipolar and Hall effects on vorticity in three-dimensional simulations of magneto-convection. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200176.	3.4	6
6	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
7	Evolution of Stokes V area asymmetry related to a quiet Sun cancellation observed with GRIS/IFU. Astronomy and Astrophysics, 2020, 634, A131.	5.1	5
8	Two-dimensional simulations of coronal rain dynamics. Astronomy and Astrophysics, 2020, 634, A36.	5.1	11
9	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
10	Tracking Downflows from the Chromosphere to the Photosphere in a Solar Arch Filament System. Astrophysical Journal, 2020, 890, 82.	4.5	1
11	Photospheric magnetic topology of a north polar region. Astronomy and Astrophysics, 2020, 635, A210.	5.1	6
12	Recent advancements in the EST project. Advances in Space Research, 2019, 63, 1389-1395.	2.6	27
13	An introductory guide to fluid models with anisotropic temperatures. Part 2. Kinetic theory, PadÃ© approximants and Landau fluid closures. Journal of Plasma Physics, 2019, 85, .	2.1	19
14	An introductory guide to fluid models with anisotropic temperatures. Part 1. CGL description and collisionless fluid hierarchy. Journal of Plasma Physics, 2019, 85, .	2.1	32
15	Partially Ionized Plasmas in Astrophysics. Space Science Reviews, 2018, 214, 1.	8.1	102
16	Three-dimensional simulations of solar magneto-convection including effects of partial ionization. Astronomy and Astrophysics, 2018, 618, A87.	5.1	54
17	Temporal evolution of arch filaments as seen in Heâ€¯I 10 830 Ã…. Astronomy and Astrophysics, 2018, 617, A55.	5.1	14
18	Magnetic topology of the north solar pole. Astronomy and Astrophysics, 2018, 616, A46.	5.1	8

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19	Rayleigh-Taylor instabilities with sheared magnetic fields in partially ionised plasmas. Astronomy and Astrophysics, 2018, 609, A23.	5.1	10
20	High-resolution imaging and near-infrared spectroscopy of penumbral decay. Astronomy and Astrophysics, 2018, 614, A2.	5.1	14
21	Commissioning tests of an Integral Field Unit (IFU) at GREGOR solar telescope. , 2018, , .		2
22	High-frequency waves in the corona due to null points. Astronomy and Astrophysics, 2017, 602, A43.	5.1	9
23	Penumbral thermal structure below the visible surface. Astronomy and Astrophysics, 2017, 601, L8.	5.1	8
24	Numerical simulations of quiet Sun magnetic fields seeded by the Biermann battery. Astronomy and Astrophysics, 2017, 604, A66.	5.1	35
25	Signatures of the impact of flare-ejected plasma on the photosphere of a sunspot light bridge. Astronomy and Astrophysics, 2017, 608, A97.	5.1	9
26	OBSERVATIONAL DETECTION OF DRIFT VELOCITY BETWEEN IONIZED AND NEUTRAL SPECIES IN SOLAR PROMINENCES. Astrophysical Journal, 2016, 823, 132.	4.5	25
27	Simulated interaction of magnetohydrodynamic shock waves with a complex network-like region. Astronomy and Astrophysics, 2016, 590, L3.	5.1	11
28	Fitting peculiar spectral profiles in He <scp>I</scp> 10830 Ã... absorption features. Astronomische Nachrichten, 2016, 337, 1057-1063.	1.2	12
29	Horizontal flow fields in and around a small active region. Astronomy and Astrophysics, 2016, 596, A3.	5.1	13
30	Magnetic fields of opposite polarity in sunspot penumbrae. Astronomy and Astrophysics, 2016, 596, A4.	5.1	21
31	Active region fine structure observed at 0.08 arcsec resolution. Astronomy and Astrophysics, 2016, 596, A7.	5.1	23
32	ON THE MAGNETISM AND DYNAMICS OF PROMINENCE LEGS HOSTING TORNADOES. Astrophysical Journal, 2016, 825, 119.	4.5	16
33	Flow and magnetic field properties in the trailing sunspots of active region NOAA 12396. Astronomische Nachrichten, 2016, 337, 1090-1098.	1.2	1
34	The European Solar Telescope (EST). Proceedings of SPIE, 2016, , .	0.8	17
35	Deep probing of the photospheric sunspot penumbra: no evidence of field-free gaps. Astronomy and Astrophysics, 2016, 596, A2.	5.1	29
36	Inference of magnetic fields in the very quiet Sun. Astronomy and Astrophysics, 2016, 596, A5.	5.1	24

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37	Solar adaptive optics: specificities, lessons learned, and open alternatives. , 2016, , .		3
38	Local seeing determination by thermal-CFD analysis to optimize the European Solar Telescope image quality. , 2016, , .		0
39	Opto-mechanical design of an image slicer for the GRIS spectrograph at GREGOR. , 2016, , .		1
40	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
41	Upper chromospheric magnetic field of a sunspot penumbra: observations of fine structure. Astronomy and Astrophysics, 2016, 596, A8.	5.1	20
42	Three-dimensional structure of a sunspot light bridge. Astronomy and Astrophysics, 2016, 596, A59.	5.1	41
43	ON THE ROBUSTNESS OF THE PENDULUM MODEL FOR LARGE-AMPLITUDE LONGITUDINAL OSCILLATIONS IN PROMINENCES. Astrophysical Journal, 2016, 817, 157.	4.5	34
44	Daytime turbulence profiling for EST and its impact in the solar MCAO system design. , 2016, , .		3
45	Magnetohydrodynamic wave propagation from the subphotosphere to the corona in an arcade-shaped magnetic field with a null point. Astronomy and Astrophysics, 2015, 577, A70.	5.1	35
46	Oscillations and Waves in Sunspots. Living Reviews in Solar Physics, 2015, 12, 1.	22.0	123
47	Evershed flow observed in neutral and singly ionized iron lines. Astronomy and Astrophysics, 2015, 584, A66.	5.1	10
48	On the nature of transverse coronal waves revealed by wavefront dislocations. Astronomy and Astrophysics, 2015, 579, A127.	5.1	4
49	Variation in sunspot properties between 1999 and 2014. Astronomy and Astrophysics, 2015, 578, A43.	5.1	17
50	MAGNETIC AND DYNAMICAL PHOTOSPHERIC DISTURBANCES OBSERVED DURING AN M3.2 SOLAR FLARE. Astrophysical Journal Letters, 2015, 799, L25.	8.3	19
51	Where are the solar magnetic poles?. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 453, L69-L72.	3.3	12
52	Rayleigh-Taylor instability in partially ionized compressible plasmas: One fluid approach. Astronomy and Astrophysics, 2014, 564, A97.	5.1	33
53	Fluid description of multi-component solar partially ionized plasma. Physics of Plasmas, 2014, 21, .	1.9	84
54	MuSICa image slicer prototype at 1.5-m GREGOR solar telescope. , 2014, , .		7

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55	Rayleigh-Taylor instability in prominences from numerical simulations including partial ionization effects. Astronomy and Astrophysics, 2014, 565, A45.	5.1	56
56	Full Stokes observations in the He <scp>i</scp> 1083 nm spectral region covering an M3.2 flare. Proceedings of the International Astronomical Union, 2014, 10, 73-78.	0.0	2
57	Dislocations in Magnetohydrodynamic Waves in a Stellar Atmosphere. Physical Review Letters, 2013, 111, 081103.	7.8	8
58	MuSICa: THE MULTI-SLIT IMAGE SLICER FOR THE EST SPECTROGRAPH. Journal of Astronomical Instrumentation, 2013, 02, .	1.5	29
59	A HIGH RESOLUTION INTEGRAL FIELD SPECTROGRAPH FOR THE EUROPEAN SOLAR TELESCOPE. Journal of Astronomical Instrumentation, 2013, 02, 1350007.	1.5	7
60	Rayleighâ€“Taylor instability in partially ionized prominence plasma. Proceedings of the International Astronomical Union, 2013, 8, 90-93.	0.0	0
61	Preliminary design of a multi-slit image slicer for EST. , 2012, , .		2
62	Conceptual design of the data handling system for the European Solar Telescope. , 2012, , .		0
63	HEATING OF THE MAGNETIZED SOLAR CHROMOSPHERE BY PARTIAL IONIZATION EFFECTS. Astrophysical Journal, 2012, 747, 87.	4.5	140
64	The 1.5 meter solar telescope GREGOR. Astronomische Nachrichten, 2012, 333, 796-809.	1.2	131
65	Gregor@night: The future highâ€resolution stellar spectrograph for the GREGOR solar telescope. Astronomische Nachrichten, 2012, 333, 901-910.	1.2	1
66	A retrospective of the GREGOR solar telescope in scientific literature. Astronomische Nachrichten, 2012, 333, 810-815.	1.2	8
67	The GREGOR Fabryâ€PÃ©rot Interferometer. Astronomische Nachrichten, 2012, 333, 880-893.	1.2	46
68	GRIS: The GREGOR Infrared Spectrograph. Astronomische Nachrichten, 2012, 333, 872-879.	1.2	93
69	Multi-purpose grating spectrograph for the 4-meter European Solar Telescope. Proceedings of SPIE, 2012, , .	0.8	0
70	Performance simulations for the conceptual design of the European Solar Telescope (EST). Proceedings of SPIE, 2011, , .	0.8	1
71	Magneto-acoustic waves in sunspots from observations and numerical simulations. Journal of Physics: Conference Series, 2011, 271, 012040.	0.4	0
72	MAGNETOACOUSTIC WAVE ENERGY FROM NUMERICAL SIMULATIONS OF AN OBSERVED SUNSPOT UMBRA. Astrophysical Journal, 2011, 735, 65.	4.5	33

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73	The Imaging Magnetograph eXperiment (IMaX) forÂtheÂSunrise Balloon-Borne Solar Observatory. Solar Physics, 2011, 268, 57-102.	2.5	229
74	Spectrograph capabilities of the European Solar Telescope. , 2010, , .		4
75	Current concept for the 4m European Solar Telescope (EST) optical design. Proceedings of SPIE, 2010, , .	0.8	6
76	Feasibility study of high-resolution integral-field spectrographs for EST with multislit and multi-wavelength capabilities. , 2010, , .		3
77	Data handling and control for the European Solar Telescope. Proceedings of SPIE, 2010, , .	0.8	1
78	MAGNETO-ACOUSTIC WAVES IN SUNSPOTS: FIRST RESULTS FROM A NEW THREE-DIMENSIONAL NONLINEAR MAGNETOHYDRODYNAMIC CODE. Astrophysical Journal, 2010, 719, 357-377.	4.5	102
79	MULTI-LAYER STUDY OF WAVE PROPAGATION IN SUNSPOTS. Astrophysical Journal, 2010, 722, 131-144.	4.5	78
80	European Solar Telescope: Progress status. Astronomische Nachrichten, 2010, 331, 615-619.	1.2	50
81	GREGOR solar telescope: Design and status. Astronomische Nachrichten, 2010, 331, 624-627.	1.2	13
82	European Solar Telescope: project status. Proceedings of SPIE, 2010, , .	0.8	17
83	GREGOR telescope: start of commissioning. Proceedings of SPIE, 2010, , .	0.8	10
84	Site-seeing measurements for the European Solar Telescope. , 2010, , .		7
85	The polarization optics for the European Solar Telescope (EST). , 2010, , .		14
86	A numerical strategy to compute optical parameters in turbulent flow: Application to telescopes. Computers and Fluids, 2010, 39, 87-98.	2.5	4
87	The Imaging Magnetograph eXperiment (IMaX) forÂtheÂSunrise Balloon-Borne Solar Observatory. , 2010, , 57-102.		0
88	WAVE PROPAGATION AND SHOCK FORMATION IN DIFFERENT MAGNETIC STRUCTURES. Astrophysical Journal, 2009, 692, 1211-1220.	4.5	61
89	THEORETICAL MODELING OF PROPAGATION OF MAGNETOACOUSTIC WAVES IN MAGNETIC REGIONS BELOW SUNSPOTS. Astrophysical Journal, 2009, 694, 411-424.	4.5	37
90	The energy of waves in the photosphere and lower chromosphere. Astronomy and Astrophysics, 2009, 507, 453-467.	5.1	35

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91	Sunspot seismic halos generated by fast MHD wave refraction. Astronomy and Astrophysics, 2009, 506, L5-L8.	5.1	40
92	Nonlinear Numerical Simulations of Magneto-Acoustic Wave Propagation in Small-Scale Flux Tubes. Solar Physics, 2008, 251, 589-611.	2.5	82
93	Error propagation in polarimetric demodulation. Applied Optics, 2008, 47, 2541.	2.1	8
94	A high-resolution spectrograph for the solar telescope GREGOR. Proceedings of SPIE, 2008, , .	0.8	4
95	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
96	A full-Stokes polarimeter for the GREGOR Fabry-Perot interferometer. Proceedings of the International Astronomical Union, 2008, 4, 665-666.	0.0	8
97	Magnetohydrostatic Sunspot Models from Deep Subphotospheric to Chromospheric Layers. Astrophysical Journal, 2008, 689, 1379-1387.	4.5	38
98	The Influence of Coronal EUV Irradiance on the Emission in the He<scp>i</scp>10830 Ã... and D₃Multiplets. Astrophysical Journal, 2008, 677, 742-750.	4.5	56
99	Multiline Spectropolarimetry of the Quiet Sun at 5250 and 6302 A. Astrophysical Journal, 2008, 674, 596-606.	4.5	27
100	European Solar Telescope (EST): project status. Proceedings of SPIE, 2008, , .	0.8	14
101	Internetwork magnetic field distribution from simultaneous 1.56 $mathsf{mu}$m and 630 nm observations. Astronomy and Astrophysics, 2008, 477, 953-965.	5.1	56
102	Nonlinear Numerical Simulations of Magneto-Acoustic Wave Propagation in Small-Scale Flux Tubes. , 2008, , 587-609.		0
103	A Nearâ€Infrared Line of Mnias a Diagnostic Tool of the Average Magnetic Energy in the Solar Photosphere. Astrophysical Journal, 2007, 659, 829-847.	4.5	25
104	On the StokesVAmplitude Ratio as an Indicator of the Field Strength in the Solar Internetwork. Astrophysical Journal, 2007, 659, 1726-1735.	4.5	49
105	Low-lying magnetic loops in the solar internetwork. Astronomy and Astrophysics, 2007, 469, L39-L42.	5.1	66
106	Detailed design of the imaging magnetograph experiment (IMaX): a visible imager magnetograph for the Sunrise mission. , 2006, 6265, 1387.		3
107	The new 1.5m solar telescope GREGOR: first light and start of commissioning. , 2006, , .		2
108	Site testing for the Advanced Technology Solar Telescope. , 2006, 6267, 621.		16

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109	Spectropolarimetric Investigation of the Propagation of Magnetoacoustic Waves and Shock Formation in Sunspot Atmospheres. Astrophysical Journal, 2006, 640, 1153-1162.	4.5	138
110	Determination of the Magnetic Field Vector via the Hanle and Zeeman Effects in the HeiÎ»10830 Multiplet: Evidence for Nearly Vertical Magnetic Fields in a Polar Crown Prominence. Astrophysical Journal, 2006, 642, 554-561.	4.5	72
111	Numerical Modeling of Magnetohydrodynamic Wave Propagation and Refraction in Sunspots. Astrophysical Journal, 2006, 653, 739-755.	4.5	142
112	On the validity of the 630 nm Feâ€‰I lines for magnetometry ofÂtheÂinternetwork quiet Sun. Astronomy and Astrophysics, 2006, 456, 1159-1164.	5.1	58
113	A polarization model for the German Vacuum Tower Telescope from inÂsitu and laboratory measurements. Astronomy and Astrophysics, 2005, 443, 1047-1053.	5.1	64
114	The Hanle and Zeeman Effects in Solar Spicules: A Novel Diagnostic Window on Chromospheric Magnetism. Astrophysical Journal, 2005, 619, L191-L194.	4.5	67
115	The new 1.5 solar telescope GREGOR: progress report and results of performance tests. , 2005, 5901, 75.		2
116	Observation and Modeling of Anomalous CN Polarization Profiles Produced by the Molecular Paschen-Back Effect in Sunspots. Astrophysical Journal, 2005, 623, L57-L61.	4.5	5
117	Evidence for Fine Structure in the Chromospheric Umbral Oscillation. Astrophysical Journal, 2005, 635, 670-673.	4.5	25
118	Solar Site Survey for the Advanced Technology Solar Telescope. I. Analysis of the Seeing Data. Publications of the Astronomical Society of the Pacific, 2005, 117, 1296-1305.	3.1	21
119	Some properties of an isolated sunspot. Astronomy and Astrophysics, 2005, 429, 705-711.	5.1	17
120	On the fine structure of sunspot penumbrae. Astronomy and Astrophysics, 2005, 436, 333-345.	5.1	69
121	Magnetic flux in the internetwork quiet Sun. Astronomy and Astrophysics, 2005, 436, L27-L30.	5.1	50
122	Detection of Polarization from the E 4 - A 4 System of FeH in Sunspot Spectra. Astrophysical Journal, 2004, 603, L125-L128.	4.5	7
123	Progress report of the 1.5 m solar telescope GREGOR. , 2004, , .		4
124	Solar site testing for the Advanced Technology Solar Telescope. , 2004, 5489, 122.		8
125	Thermal-magnetic relation in a sunspot and a map of its Wilson depression. Astronomy and Astrophysics, 2004, 422, 693-701.	5.1	54
126	Two magnetic components in sunspot penumbrae. Astronomy and Astrophysics, 2004, 427, 319-334.	5.1	122

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127	Structure of a simple sunspot from the inversion of IR spectral data. Astronomische Nachrichten, 2003, 324, 388-389.	1.2	4
128	The structure of the penumbra. Astronomische Nachrichten, 2003, 324, 390-390.	1.2	0
129	Three-dimensional magnetic field topology in a region of solar coronal heating. Nature, 2003, 425, 692-695.	27.8	151
130	IMax: a visible magnetograph for SUNRISE. , 2003, , .		4
131	Liquid crystal optical retarders for IMaX to fly with SUNRISE. , 2003, 4843, 30.		3
132	Magnetoacoustic Waves in Sunspots. Astrophysical Journal, 2003, 588, 606-619.	4.5	36
133	Three dimensional structure of a regular sunspot from the inversion of IR Stokes profiles. Astronomy and Astrophysics, 2003, 410, 695-710.	5.1	72
134	Field-aligned Evershed flows in the photosphere of a sunspot penumbra. Astronomy and Astrophysics, 2003, 403, L47-L50.	5.1	73
135	Quiet-Sun inter-network magnetic fields observed in the infrared. Astronomy and Astrophysics, 2003, 408, 1115-1135.	5.1	144
136	Understanding internetwork magnetic fields as determined from visible and infrared spectral lines. Astronomy and Astrophysics, 2003, 406, 357-362.	5.1	24
137	Spectropolarimetry in a sunspot penumbra. Astronomy and Astrophysics, 2002, 381, 668-682.	5.1	93
138	Infrared spectropolarimetry of sunspots. Astronomische Nachrichten, 2002, 323, 254-256.	1.2	3
139	Selective absorption processes as the origin of puzzling spectral line polarization from the Sun. Nature, 2002, 415, 403-406.	27.8	137
140	Lagrangian and Eulerian Stratifications of Acoustic Oscillations through the Solar Photosphere. Astrophysical Journal, 2001, 547, 491-502.	4.5	5
141	Observation of Convective Collapse and Upwardâ€moving Shocks in the Quiet Sun. Astrophysical Journal, 2001, 560, 1010-1019.	4.5	59
142	Penumbral finestructure: need for larger telescopes. Astronomische Nachrichten, 2001, 322, 367-370.	1.2	6
143	Cold, Supersonic Evershed Downflows in a Sunspot. Astrophysical Journal, 2001, 549, L139-L142.	4.5	65
144	Structure of Plage Flux Tubes from the Inversion of Stokes Spectra. I. Spatially Averaged StokesIandVProfiles. Astrophysical Journal, 2000, 535, 489-500.	4.5	41

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145	Inversion of Stokes Profiles from Solar Magnetic Elements. Astrophysical Journal, 2000, 535, 475-488.	4.5	19
146	Optimum modulation and demodulation matrices for solar polarimetry. Applied Optics, 2000, 39, 1637.	2.1	105
147	Oscillations in the Photosphere of a Sunspot Umbra from the Inversion of Infrared Stokes Profiles. Astrophysical Journal, 2000, 534, 989-996.	4.5	61
148	The Hermitian Solution of the Radiative Transfer Equation for Non-LTE Problems. Astrophysics and Space Science Library, 1999, , 231-240.	2.7	1
149	An LTE Code for the Inversion of Stokes Spectra from Solar Magnetic Elements. Astrophysics and Space Science Library, 1999, , 271-280.	2.7	2
150	An Hermitian Method for the Solution of Polarized Radiative Transfer Problems. Astrophysical Journal, 1998, 506, 805-817.	4.5	31
151	Flux-Tube Model Atmospheres and Stokes [ITAL]V[/ITAL] Zero-crossing Wavelengths. Astrophysical Journal, 1997, 478, L45-L48.	4.5	41
152	Stratification with Optical Depth of the 5 Minute Oscillation through the Solar Photosphere. Astrophysical Journal, 1997, 488, 462-472.	4.5	15
153	Stratification of the 5-min oscillation through the solar photosphere. Solar Physics, 1997, 172, 77-83.	2.5	2
154	A Multiline Method to Determine Stellar Magnetic Fields. International Astronomical Union Colloquium, 1993, 137, 196-198.	0.1	0
155	Magnetic Flux Determination in Late-Type Dwarfs. International Astronomical Union Colloquium, 1991, 130, 417-419.	0.1	0
156	Facular points and small-scale magnetic elements. Astrophysics and Space Science, 1990, 170, 9-16.	1.4	0
157	Photometry and spectroscopy of the solar granulation along the polar axis and equator. Astrophysics and Space Science, 1990, 170, 23-30.	1.4	1
158	Velocity fields associated with the magnetic component of solar faculae. Astrophysics and Space Science, 1990, 170, 31-39.	1.4	2
159	Numerical test of a newV-profile inversion technique. Astrophysics and Space Science, 1990, 170, 113-116.	1.4	1
160	Fried's parameter derived from observations of granulation outside the disk centre. Astrophysics and Space Science, 1990, 170, 155-159.	1.4	1
161	CCD photometry of stars in the old open cluster NGC 188. Astronomical Journal, 1990, 99, 261.	4.7	18
162	An example of the cancellation of magnetic fields during the decay of an active region. Solar Physics, 1989, 124, 219-226.	2.5	7

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163	On the age dependence of the asymmetry of penumbrae of sunspots. Solar Physics, 1988, 117, 199-202.	2.5	0
164	A statistical study of the geometrical Wilson effect. Solar Physics, 1987, 112, 281-293.	2.5	14
165	Granulation deformation near and in sunspot regions. Solar Physics, 1986, 105, 17-25.	2.5	8
166	Photometry of light-bridges in sunspots. , 1985, , 299-303.		0
167	Two numerical processes for the calibration of photographic plates. Applied Optics, 1984, 23, 2827.	2.1	6
168	Polarimetric characterization of segmented mirrors. Applied Optics, 0, , .	1.8	1