

# Leon Golub

## List of Publications by Year in descending order

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149  
papers

9,999  
citations

44066

48  
h-index

34984

98  
g-index

162  
all docs

162  
docs citations

162  
times ranked

3084  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Atmospheric Imaging Assembly (AIA) on the Solar Dynamics Observatory (SDO). <i>Solar Physics</i> , 2012, 275, 17-40.	2.5	3,385
2	Solar Wind Electrons Alphas and Protons (SWEAP) Investigation: Design of the Solar Wind and Coronal Plasma Instrument Suite for Solar Probe Plus. <i>Space Science Reviews</i> , 2016, 204, 131-186.	8.1	439
3	Initial Calibration of the Atmospheric Imaging Assembly (AIA) on the Solar Dynamics Observatory (SDO). <i>Solar Physics</i> , 2012, 275, 41-66.	2.5	352
4	Alfvénic velocity spikes and rotational flows in the near-Sun solar wind. <i>Nature</i> , 2019, 576, 228-231.	27.8	311
5	Hot explosions in the cool atmosphere of the Sun. <i>Science</i> , 2014, 346, 1255726.	12.6	234
6	Prevalence of small-scale jets from the networks of the solar transition region and chromosphere. <i>Science</i> , 2014, 346, 1255711.	12.6	232
7	Continuous Plasma Outflows from the Edge of a Solar Active Region as a Possible Source of Solar Wind. <i>Science</i> , 2007, 318, 1585-1588.	12.6	189
8	A Study of Polar Jet Parameters Based on Hinode XRT Observations. <i>Publication of the Astronomical Society of Japan</i> , 2007, 59, S771-S778.	2.5	159
9	Temperature and Emission-Measure Profiles along Long-lived Solar Coronal Loops Observed with the [ITAL]Transition Region and Coronal Explorer[/ITAL]. <i>Astrophysical Journal</i> , 1999, 517, L155-L158.	4.5	157
10	Evidence of nonthermal particles in coronal loops heated impulsively by nanoflares. <i>Science</i> , 2014, 346, 1255724.	12.6	148
11	OBSERVATIONS AND INTERPRETATION OF A LOW CORONAL SHOCK WAVE OBSERVED IN THE EUV BY THE SDO/AIA. <i>Astrophysical Journal</i> , 2011, 738, 160.	4.5	137
12	Magnetic properties of x-ray bright points. <i>Solar Physics</i> , 1977, 53, 111-121.	2.5	135
13	FANâ€“SPINE TOPOLOGY FORMATION THROUGH TWO-STEP RECONNECTION DRIVEN BY TWISTED FLUX EMERGENCE. <i>Astrophysical Journal</i> , 2009, 704, 485-495.	4.5	125
14	Steady Flows Detected in Extreme-Ultraviolet Loops. <i>Astrophysical Journal</i> , 2002, 567, L89-L92.	4.5	125
15	AN <i>INTERFACE REGION IMAGING SPECTROGRAPH</i> FIRST VIEW ON SOLAR SPICULES. <i>Astrophysical Journal Letters</i> , 2014, 792, L15.	8.3	115
16	OBSERVATIONS AND MAGNETIC FIELD MODELING OF THE FLARE/CORONAL MASS EJECTION EVENT ON 2010 APRIL 8. <i>Astrophysical Journal</i> , 2011, 734, 53.	4.5	113
17	On the prevalence of small-scale twist in the solar chromosphere and transition region. <i>Science</i> , 2014, 346, 1255732.	12.6	111
18	The High-Resolution Coronal Imager (Hi-C). <i>Solar Physics</i> , 2014, 289, 4393-4412.	2.5	104

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19	HIGH-RESOLUTION OBSERVATIONS OF THE SHOCK WAVE BEHAVIOR FOR SUNSPOT OSCILLATIONS WITH THE INTERFACE REGION IMAGING SPECTROGRAPH. <i>Astrophysical Journal</i> , 2014, 786, 137.	4.5	102
20	OBSERVING CORONAL NANOFLARES IN ACTIVE REGION MOSS. <i>Astrophysical Journal Letters</i> , 2013, 770, L1.	8.3	99
21	Slipping Magnetic Reconnection in Coronal Loops. <i>Science</i> , 2007, 318, 1588-1591.	12.6	98
22	The three-dimensional structures of X-ray bright points. <i>Solar Physics</i> , 1994, 151, 57-74.	2.5	96
23	ATMOSPHERIC IMAGING ASSEMBLY OBSERVATIONS OF HOT FLARE PLASMA. <i>Astrophysical Journal Letters</i> , 2011, 727, L52.	8.3	96
24	<i>Hinode</i> , <i>TRACE</i> , <i>SOHO</i> , and Ground-based Observations of a Quiescent Prominence. <i>Astrophysical Journal</i> , 2008, 686, 1383-1396.	4.5	95
25	Rapid changes in the fine structure of a coronal "bright point" and a small coronal "active region". <i>Solar Physics</i> , 1979, 63, 119-126.	2.5	91
26	HOMOLOGOUS HELICAL JETS: OBSERVATIONS BY <i>IRIS</i> , <i>SDO</i> , AND <i>HINODE</i> AND MAGNETIC MODELING WITH DATA-DRIVEN SIMULATIONS. <i>Astrophysical Journal</i> , 2015, 801, 83.	4.5	89
27	The unresolved fine structure resolved: <i>IRIS</i> observations of the solar transition region. <i>Science</i> , 2014, 346, 1255757.	12.6	87
28	The <i>Hinode</i> X-Ray Telescope (XRT): Camera Design, Performance and Operations. <i>Solar Physics</i> , 2008, 249, 263-279.	2.5	84
29	STATISTICAL STUDY OF CORONAL MASS EJECTIONS WITH AND WITHOUT DISTINCT LOW CORONAL SIGNATURES. <i>Astrophysical Journal</i> , 2010, 722, 289-301.	4.5	82
30	Dynamic Responses to Magnetic Reconnection in Solar Arcades. <i>Astrophysical Journal</i> , 1998, 495, 491-501.	4.5	80
31	OBSERVATIONS AND NONLINEAR FORCE-FREE FIELD MODELING OF ACTIVE REGION 10953. <i>Astrophysical Journal</i> , 2009, 691, 105-114.	4.5	73
32	ON THE STRUCTURE AND EVOLUTION OF COMPLEXITY IN SIGMOIDS: A FLUX EMERGENCE MODEL. <i>Astrophysical Journal</i> , 2009, 691, 1276-1291.	4.5	70
33	SIMULTANEOUS <i>IRIS</i> AND <i>HINODE/EIS</i> OBSERVATIONS AND MODELING OF THE 2014 OCTOBER 27 X2.0 CLASS FLARE. <i>Astrophysical Journal</i> , 2016, 816, 89.	4.5	70
34	A Statistical Study of Shear Motion of the Footpoints in Two Ribbon Flares. <i>Astrophysical Journal</i> , 2007, 655, 606-614.	4.5	63
35	OBSERVATIONS OF SUBARCSECOND BRIGHT DOTS IN THE TRANSITION REGION ABOVE SUNSPOTS WITH THE INTERFACE REGION IMAGING SPECTROGRAPH. <i>Astrophysical Journal Letters</i> , 2014, 790, L29.	8.3	63
36	Apparent Flows above an Active Region Observed with the [ITAL]Transition Region and Coronal Explorer/[ITAL]. <i>Astrophysical Journal</i> , 2001, 553, L81-L84.	4.5	62

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37	Distribution of lifetimes for coronal soft X-ray bright points. <i>Solar Physics</i> , 1976, 49, 79.	2.5	61
38	X-Ray Jet Dynamics in a Polar Coronal Hole Region. <i>Solar Physics</i> , 2009, 254, 259-269.	2.5	61
39	DETECTION OF SUPERSONIC DOWNFLOWS AND ASSOCIATED HEATING EVENTS IN THE TRANSITION REGION ABOVE SUNSPOTS. <i>Astrophysical Journal Letters</i> , 2014, 789, L42.	8.3	60
40	Coronal-Temperature-Diagnostic Capability of the Hinode/X-Ray Telescope Based on Self-Consistent Calibration. <i>Solar Physics</i> , 2011, 269, 169-236.	2.5	59
41	JOINT HIGH TEMPERATURE OBSERVATION OF A SMALL C6.5 SOLAR FLARE WITH IRIS/EIS/AIA. <i>Astrophysical Journal</i> , 2015, 803, 84.	4.5	59
42	DEFINING THE "BLIND SPOT" OF HINODE EIS AND XRT TEMPERATURE MEASUREMENTS. <i>Astrophysical Journal Letters</i> , 2012, 746, L17.	8.3	56
43	ON THE NATURE OF PROMINENCE EMISSION OBSERVED BY SDO/AIA. <i>Astrophysical Journal</i> , 2012, 754, 66.	4.5	55
44	The Magnetic Structure of a Coronal X-Ray Bright Point. <i>Solar Physics</i> , 2001, 201, 305-321.	2.5	54
45	Evolution of the Sheared Magnetic Fields of Two X-Class Flares Observed by Hinode/XRT. <i>Publication of the Astronomical Society of Japan</i> , 2007, 59, S785-S791.	2.5	54
46	DETECTING NANOFIARE HEATING EVENTS IN SUBARCSECOND INTER-MOSS LOOPS USING HI-C. <i>Astrophysical Journal</i> , 2013, 771, 21.	4.5	54
47	FLARE ENERGY BUILD-UP IN A DECAYING ACTIVE REGION NEAR A CORONAL HOLE. <i>Astrophysical Journal</i> , 2009, 704, 341-353.	4.5	53
48	SOME LIKE IT HOT: CORONAL HEATING OBSERVATIONS FROM HINODE X-RAY TELESCOPE AND RHESSI. <i>Astrophysical Journal</i> , 2009, 704, 863-869.	4.5	53
49	HIGH-RESOLUTION LABORATORY MEASUREMENTS OF CORONAL LINES IN THE 198-218 Å... REGION. <i>Astrophysical Journal</i> , 2014, 788, 25.	4.5	48
50	Observation of spatial and temporal variations in X-ray bright point emergence patterns. <i>Solar Physics</i> , 1976, 50, 311-327.	2.5	46
51	SOLAR DYNAMICS OBSERVATORY DISCOVERS THIN HIGH TEMPERATURE STRANDS IN CORONAL ACTIVE REGIONS. <i>Astrophysical Journal Letters</i> , 2011, 736, L16.	8.3	46
52	The High-Resolution Coronal Imager, Flight 2.1. <i>Solar Physics</i> , 2019, 294, 1.	2.5	44
53	ANTI-PARALLEL EUV FLOWS OBSERVED ALONG ACTIVE REGION FILAMENT THREADS WITH HI-C. <i>Astrophysical Journal Letters</i> , 2013, 775, L32.	8.3	43
54	Is the High-Resolution Coronal Imager Resolving Coronal Strands? Results from AR 12712. <i>Astrophysical Journal</i> , 2020, 892, 134.	4.5	40

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55	Fine-scale Explosive Energy Release at Sites of Prospective Magnetic Flux Cancellation in the Core of the Solar Active Region Observed by Hi-C 2.1, IRIS, and SDO. <i>Astrophysical Journal</i> , 2019, 887, 56.	4.5	39
56	DYNAMICS OF THE TRANSITION CORONA. <i>Astrophysical Journal</i> , 2014, 787, 145.	4.5	33
57	Fine Thermal Structure of a Coronal Active Region. <i>Science</i> , 2007, 318, 1582-1585.	12.6	31
58	HIGH-RESOLUTION LABORATORY SPECTRA ON THE $\hat{\nu}$ 131 CHANNEL OF THE AIA INSTRUMENT ON BOARD THE <i>SOLAR DYNAMICS OBSERVATORY</i> . <i>Astrophysical Journal, Supplement Series</i> , 2014, 211, 14.	7.7	31
59	INTERNETWORK CHROMOSPHERIC BRIGHT GRAINS OBSERVED WITH IRIS AND SST. <i>Astrophysical Journal</i> , 2015, 803, 44.	4.5	31
60	Hi-C 2.1 Observations of Jetlet-like Events at Edges of Solar Magnetic Network Lanes. <i>Astrophysical Journal Letters</i> , 2019, 887, L8.	8.3	30
61	HIGH-RESOLUTION LABORATORY SPECTRA OF THE $\hat{\nu}$ 193 CHANNEL OF THE ATMOSPHERIC IMAGING ASSEMBLY INSTRUMENT ON BOARD <i>SOLAR DYNAMICS OBSERVATORY</i> . <i>Astrophysical Journal, Supplement Series</i> , 2014, 215, 6.	7.7	29
62	TRACE observations of the 15 November 1999 transit of Mercury and the Black Drop effect: considerations for the 2004 transit of Venus. <i>Icarus</i> , 2004, 168, 249-256.	2.5	28
63	Development and testing of EUV multilayer coatings for the atmospheric imaging assembly instrument aboard the Solar Dynamics Observatory. , 2005, , .		27
64	Imaging performance of multilayer x-ray mirrors. <i>Applied Physics Letters</i> , 1992, 61, 1481-1483.	3.3	26
65	Fabrication and testing of large area multilayer coated x-ray optics. <i>Applied Optics</i> , 1989, 28, 2969.	2.1	25
66	The Dynamical Morphologies of Flares Associated with the Two Types of Solar Coronal Mass Ejections. <i>Astrophysical Journal</i> , 2003, 595, 1251-1258.	4.5	25
67	FLARES AND THEIR UNDERLYING MAGNETIC COMPLEXITY. <i>Astrophysical Journal</i> , 2011, 726, 12.	4.5	25
68	Probing the Physics of the Solar Atmosphere with the Multi-slit Solar Explorer (MUSE). I. Coronal Heating. <i>Astrophysical Journal</i> , 2022, 926, 52.	4.5	25
69	Probing the Physics of the Solar Atmosphere with the Multi-slit Solar Explorer (MUSE). II. Flares and Eruptions. <i>Astrophysical Journal</i> , 2022, 926, 53.	4.5	24
70	X-ray tests of multilayer coated optics. <i>Applied Optics</i> , 1984, 23, 3529.	2.1	21
71	DISCOVERY OF FINELY STRUCTURED DYNAMIC SOLAR CORONA OBSERVED IN THE Hi-C TELESCOPE. <i>Astrophysical Journal Letters</i> , 2014, 787, L10.	8.3	21
72	The Drivers of Active Region Outflows into the Slow Solar Wind. <i>Astrophysical Journal</i> , 2020, 894, 144.	4.5	19

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73	Radon emanation from the moon, spatial and temporal variability. <i>The Moon</i> , 1974, 9, 129-140.	0.4	18
74	Long-lived Coronal Loop Profiles from TRACE. <i>Solar Physics</i> , 1999, 190, 131-138.	2.5	18
75	Normal incidence X-ray telescope power spectra of X-ray emission from solar active regions. I - Observations. II - Theory. <i>Astrophysical Journal</i> , 1993, 405, 767.	4.5	18
76	What Determines the Intensity of Solar Flare/CME Events?. <i>Astrophysical Journal</i> , 2007, 665, 1448-1459.	4.5	17
77	Quiescent Coronae of Active Chromosphere Stars. <i>Astrophysics and Space Science Library</i> , 1983, , 83-108.	2.7	17
78	STRUCTURE AND DYNAMICS OF QUIESCENT FILAMENT CHANNELS OBSERVED BY <i>Hinode</i> /XRT AND <i>Stereo</i> /EUVI. <i>Astrophysical Journal</i> , 2010, 721, 901-910.	4.5	15
79	The roots of coronal structure in the Sun's surface. <i>Solar Physics</i> , 1994, 153, 179-198.	2.5	14
80	Predicting the COSIE-C Signal from the Outer Corona up to 3 Solar Radii. <i>Astrophysical Journal</i> , 2018, 865, 132.	4.5	14
81	Unfolding Overlapped Slitless Imaging Spectrometer Data for Extended Sources. <i>Astrophysical Journal</i> , 2019, 882, 12.	4.5	14
82	Filters for soft x-ray solar telescopes. <i>Optical Engineering</i> , 1990, 29, 625.	1.0	13
83	High Resolution Soft X-ray Spectroscopy and the Quest for the Hot (5–10 MK) Plasma in Solar Active Regions. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	2.8	13
84	Active Region Transient Events Observed with <i>TRACE</i> . <i>Astrophysical Journal</i> , 2001, 563, L173-L177.	4.5	13
85	Imaging Evidence for Solar Wind Outflows Originating from a Coronal Mass Ejection Footpoint. <i>Astrophysical Journal</i> , 2021, 906, 62.	4.5	12
86	Atomic force microscopy characterization of Zerodur mirror substrates for the extreme ultraviolet telescopes aboard NASA's Solar Dynamics Observatory. <i>Applied Optics</i> , 2007, 46, 3156.	2.1	11
87	Low-density laboratory spectra near the He I 304 line. <i>Astronomy and Astrophysics</i> , 2016, 586, A115.	5.1	11
88	Solar Active Region Heating Diagnostics from High-temperature Emission Using the <i>MaGIXS</i> . <i>Astrophysical Journal</i> , 2019, 884, 24.	4.5	11
89	EUV imaging and spectroscopy for improved space weather forecasting. <i>Journal of Space Weather and Space Climate</i> , 2020, 10, 37.	3.3	11
90	Solar Eclipse Observations from the Ground and Air from 0.31 to 5.5 Microns. <i>Solar Physics</i> , 2019, 294, 1.	2.5	10

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91	Observation and Modeling of High-temperature Solar Active Region Emission during the High-resolution Coronal Imager Flight of 2018 May 29. <i>Astrophysical Journal</i> , 2020, 896, 51.	4.5	10
92	The black-drop effect explained. <i>Proceedings of the International Astronomical Union</i> , 2004, 2004, 242-253.	0.0	9
93	Stigmatic grazing-incidence x-ray spectrograph for solar coronal observations. <i>Proceedings of SPIE</i> , 2010, , .	0.8	9
94	Signatures of the non-Maxwellian $\langle i \rangle^p \langle /i \rangle$ -distributions in optically thin line spectra. <i>Astronomy and Astrophysics</i> , 2019, 626, A88.	5.1	9
95	XUV multilayered optics for astrophysics. <i>Revue De Physique Appliqu�e</i> , 1988, 23, 1741-1746.	0.4	9
96	Normal Incidence X-Ray Telescope Power Spectra of X-Ray Emission from Solar Active Regions. II. Theory. <i>Astrophysical Journal</i> , 1993, 405, 773.	4.5	9
97	The Marshall grazing incidence x-ray spectrometer (MaGIXS). , 2018, , .		9
98	Construction Of A Multilayered X-Ray Telescope For Solar Coronal Studies From Space. <i>Proceedings of SPIE</i> , 1985, , .	0.8	8
99	In-band and out-of-band reflectance calibrations of the EUV multilayer mirrors of the atmospheric imaging assembly instrument aboard the Solar Dynamics Observatory. <i>Proceedings of SPIE</i> , 2012, , .	0.8	8
100	Very High Resolution Solar X-ray Imaging. , 1991, , 115-123.		8
101	The interface region imaging spectrograph for the IRIS Small Explorer mission. <i>Proceedings of SPIE</i> , 2012, , .	0.8	7
102	On the alignment and focusing of the Marshall Grazing Incidence X-ray Spectrometer (MaGIXS). <i>Proceedings of SPIE</i> , 2016, , .	0.8	7
103	Empirical Scaling Laws for Coronal Heating. , 1983, , 345-361.		7
104	Design, performance prediction, and measurements of the interface region imaging spectrograph (IRIS) telescope. <i>Proceedings of SPIE</i> , 2012, , .	0.8	6
105	New Observations of the IR Emission Corona from the 2019 July 2 Eclipse Flight of the Airborne Infrared Spectrometer. <i>Astrophysical Journal</i> , 2022, 933, 82.	4.5	6
106	Filters For Soft X-Ray Solar Telescopes. <i>Proceedings of SPIE</i> , 1989, , .	0.8	5
107	<title>Results from the recent flights of the IBM/SAO x-ray telescopes</title>. , 1994, 2011, 391.		5
108	Parallel Plasma Loops and the Energization of the Solar Corona. <i>Astrophysical Journal</i> , 2022, 933, 153.	4.5	5

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109	Minimizing the mirror distortion for subarcsecond imaging in the Hi-C EUV telescope. Proceedings of SPIE, 2012, , .	0.8	4
110	Editorial: Data: Insights and Challenges in a Time of Abundance. Astrophysical Journal, Supplement Series, 2018, 236, 1.	7.7	4
111	Initial Calibration of the Atmospheric Imaging Assembly (AIA) on the Solar Dynamics Observatory (SDO). , 2011, , 41-66.		4
112	The Airborne Infrared Spectrometer: Development, Characterization, and the 2017 August 21 Eclipse Observation. Astronomical Journal, 2022, 164, 39.	4.7	4
113	<title>High-resolution grazing incidence telescope for the Solar-B observatory</title>. , 2000, , .		3
114	Solar observation from space. Review of Scientific Instruments, 2003, 74, 4583-4600.	1.3	3
115	Physical Characteristics of Unstructured Coronal Clouds. Astrophysical Journal, 2021, 910, 113.	4.5	3
116	Marshall Grazing Incidence X-ray Spectrometer Slitjaw Imager Implementation and Performance. Solar Physics, 2021, 296, 1.	2.5	3
117	LUCI onboard Lagrange, the next generation of EUV space weather monitoring. Journal of Space Weather and Space Climate, 2020, 10, 49.	3.3	3
118	Quiescent Coronae of Active Chromosphere Stars. International Astronomical Union Colloquium, 1983, 71, 83-108.	0.1	2
119	Design Considerations For Soft X-Ray Television Imaging Detectors. , 1988, 0982, 64.		2
120	Normal incidence soft x-ray $\hat{=}$ 63.5 $\hat{=}$ telescope of 1991. , 1992, 1546, 168.		2
121	<title>Super-X: a soft x-ray telescope for Solar-B</title>. , 1998, , .		2
122	The Reconnection And Microscale (RAM) Solar-Terrestrial Probe. , 2003, , .		2
123	Space Studies of the Black-Drop Effect at a Mercury Transit. Highlights of Astronomy, 2005, 13, 70-72.	0.0	2
124	Coronal Fine Linear Rays: Are They Fast Streams From Active Regions?. , 2010, , .		2
125	Polar Coronal Plumes as Tornado-like Jets. Astrophysical Journal, 2018, 866, 35.	4.5	2
126	Alignment of the Marshall Grazing Incidence X-ray Spectrometer (MaGIXS) telescope mirror and spectrometer optics assemblies. , 2020, , .		2

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127	Calibration of the Marshall Grazing Incidence X-Ray Spectrometer Experiment. II. Flight Instrument Calibration. <i>Astrophysical Journal</i> , 2021, 922, 65.	4.5	2
128	<title>HIREX: results of the mission concept study</title>. , 1998, 3442, 22.		1
129	Focal plane CCD camera for the X-Ray Telescope (XRT) aboard SOLAR-B. , 2004, , .		1
130	The Marshall Grazing Incidence X-ray Spectrometer. , 2017, , .		1
131	A New Facility for Airborne Solar Astronomy: NASA's WB-57 at the 2017 Total Solar Eclipse. <i>Astrophysical Journal</i> , 2020, 895, 131.	4.5	1
132	The Once and Future Sun. , 0, , 29-55.		0
133	What We See: The Solar Disk. , 0, , 56-105.		0
134	What We Don't See. , 0, , 106-127.		0
135	Eclipses. , 0, , 128-168.		0
136	Space Missions. , 0, , 169-209.		0
137	Between Fire and Ice. , 0, , 210-246.		0
138	Space Weather. , 0, , 247-270.		0
139	Solar and late-type dwarfs. <i>Advances in Space Research</i> , 1983, 2, 215-224.	2.6	0
140	Solar coronal studies using normal-incidence X-ray optics. <i>Advances in Space Research</i> , 1984, 4, 75-82.	2.6	0
141	High Resolution Imaging Detector For Use With A Soft X-Ray Telescope. , 1986, , .		0
142	Comments On The Observability Of Coronal Variations. , 1988, , .		0
143	Normal incidence optics for solar coronal imaging. , 1995, , .		0
144	<title>Heliospheric Links Explorer (HELIX)</title>. , 1996, , .		0

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145	<title>Novel mirror mount design: TRACE primary mirror</title>. , 1998, , .		0
146	The Reconnection and Microscale (RAM) probe. , 2005, 5901, 281.		0
147	Total mass loading of prominences estimated from their multi-spectral observations. Proceedings of the International Astronomical Union, 2013, 8, 458-459.	0.0	0
148	Long-Lived Coronal Loop Profiles from TRACE. , 2000, , 131-138.		0
149	Solar Coronal Structure: Loops, Clouds, or Both?. Research Notes of the AAS, 2019, 3, 4.	0.7	0