

Michael C B Ashley

List of Publications by Year in descending order

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159
papers

3,202
citations

126907

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h-index

206112

48
g-index

159
all docs

159
docs citations

159
times ranked

2860
citing authors

#	ARTICLE	IF	CITATIONS
1	A Massive AGB Donor in Scutum X-1: Identification of the First Mira Variable in an X-Ray Binary. <i>Astrophysical Journal Letters</i> , 2022, 928, L8.	8.3	1
2	Census of R Coronae Borealis Stars. I. Infrared Light Curves from Palomar Gattini IR. <i>Astrophysical Journal</i> , 2021, 910, 132.	4.5	7
3	Outbursting Young Stellar Object PGIR 20dci in the Perseus Arm. <i>Astronomical Journal</i> , 2021, 161, 220.	4.7	6
4	A Population of Heavily Reddened, Optically Missed Novae from Palomar Gattini-IR: Constraints on the Galactic Nova Rate. <i>Astrophysical Journal</i> , 2021, 912, 19.	4.5	23
5	Second Timescale Photometry of the Very Fast Nova V1674 Her with Palomar Gattini-IR. <i>Research Notes of the AAS</i> , 2021, 5, 244.	0.7	2
6	Cloud cover and aurora contamination at dome A in 2017 from KLCAM. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 501, 3614-3620.	4.4	4
7	Discovery of a 310 Day Period from the Enshrouded Massive System NaSt1 (WR 122). <i>Astrophysical Journal</i> , 2021, 922, 5.	4.5	0
8	Palomar Gattini-IR: Survey Overview, Data Processing System, On-sky Performance and First Results. <i>Publications of the Astronomical Society of the Pacific</i> , 2020, 132, 025001.	3.1	49
9	Night-time measurements of astronomical seeing at Dome A in Antarctica. <i>Nature</i> , 2020, 583, 771-774.	27.8	35
10	Automation of the AST3 optical sky survey from Dome A, Antarctica. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 2768-2775.	4.4	5
11	Constraining the X-Ray Infrared Spectral Index of Second-timescale Flares from SGR 1935+2154 with Palomar Gattini-IR. <i>Astrophysical Journal Letters</i> , 2020, 901, L7.	8.3	14
12	Year-round record of near-surface ozone and O ₃ enhancement events (OEEs) at Dome A, East Antarctica. <i>Earth System Science Data</i> , 2020, 12, 3529-3544.	9.9	6
13	Exoplanets in the Antarctic Sky. III. Stellar Flares Found by AST3-II (CHESPA) within the Southern CVZ of TESS. <i>Astronomical Journal</i> , 2020, 159, 201.	4.7	3
14	The G332 molecular cloud ring: I. Morphology and physical characteristics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 2089-2118.	4.4	3
15	Exoplanets in the Antarctic Sky. I. The First Data Release of AST3-II (CHESPA) and New Found Variables within the Southern CVZ of TESS. <i>Astrophysical Journal, Supplement Series</i> , 2019, 240, 16.	7.7	8
16	Exoplanets in the Antarctic Sky. II. 116 Transiting Exoplanet Candidates Found by AST3-II (CHESPA) within the Southern CVZ of TESS. <i>Astrophysical Journal, Supplement Series</i> , 2019, 240, 17.	7.7	13
17	GROWTH on S190425z: Searching Thousands of Square Degrees to Identify an Optical or Infrared Counterpart to a Binary Neutron Star Merger with the Zwicky Transient Facility and Palomar Gattini-IR. <i>Astrophysical Journal Letters</i> , 2019, 885, L19.	8.3	86
18	Meteorological Data from KLAWS-2G for an Astronomical Site Survey of Dome A, Antarctica. <i>Publications of the Astronomical Society of the Pacific</i> , 2019, 131, 015001.	3.1	16

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19	The first release of the AST3-1 Point Source Catalogue from Dome A, Antarctica. Monthly Notices of the Royal Astronomical Society, 2018, 479, 111-120.	4.4	16
20	Opening the dynamic infrared sky. , 2018, , .		2
21	Prospects for Cherenkov Telescope Array Observations of the Young Supernova Remnant RX J1713.7âˆ”3946. Astrophysical Journal, 2017, 840, 74.	4.5	14
22	Optical Sky Brightness and Transparency during the Winter Season at Dome A Antarctica from the Gattini-All-Sky Camera. Astronomical Journal, 2017, 154, 6.	4.7	19
23	Variable Stars Observed in the Galactic Disk by AST3-1 from Dome A, Antarctica. Astronomical Journal, 2017, 153, 104.	4.7	18
24	Optical observations of LIGO source GW 170817 by the Antarctic Survey Telescopes at Dome A, Antarctica. Science Bulletin, 2017, 62, 1433-1438.	9.0	69
25	Scientific Goals of the Kunlun Infrared Sky Survey (KISS). Publications of the Astronomical Society of Australia, 2016, 33, .	3.4	10
26	Optimising the K Dark Filter for the Kunlun Infrared Sky Survey. Publications of the Astronomical Society of Australia, 2016, 33, .	3.4	7
27	STELLAR VARIABILITY AND FLARE RATES FROM DOME A, ANTARCTICA, USING 2009 AND 2010 CSTAR OBSERVATIONS. Astronomical Journal, 2016, 151, 166.	4.7	12
28	STELLAR FLARES IN THE CSTAR FIELD: RESULTS FROM THE 2008 DATA SET. Astronomical Journal, 2016, 152, 168.	4.7	12
29	Operation of AST3 telescope and site testing at Dome A, Antarctica. Proceedings of SPIE, 2016, , .	0.8	4
30	The AST3-NIR camera for the Kunlun Infrared Sky Survey. Proceedings of SPIE, 2016, , .	0.8	0
31	EXTENDED CARBON LINE EMISSION IN THE GALAXY: SEARCHING FOR DARK MOLECULAR GAS ALONG THE G328 SIGHTLINE. Astrophysical Journal, 2015, 811, 13.	4.5	20
32	DIFFERENCE IMAGE ANALYSIS OF DEFOCUSED OBSERVATIONS WITH CSTAR. Astronomical Journal, 2015, 149, 50.	4.7	20
33	DISCOVERY OF MULTIPLE PULSATIONS IN THE NEW SCUTI STAR HD 92277: ASTEROSEISMOLOGY FROM DOME A, ANTARCTICA. Astronomical Journal, 2015, 149, 84.	4.7	37
34	PHOTOMETRIC VARIABILITY IN THE CSTAR FIELD: RESULTS FROM THE 2008 DATA SET. Astrophysical Journal, Supplement Series, 2015, 218, 20.	7.7	16
35	ECLIPSING BINARIES FROM THE CSTAR PROJECT AT DOME A, ANTARCTICA. Astrophysical Journal, Supplement Series, 2015, 217, 28.	7.7	16
36	PLANETARY TRANSIT CANDIDATES IN THE CSTAR FIELD: ANALYSIS OF THE 2008 DATA. Astrophysical Journal, Supplement Series, 2014, 211, 26.	7.7	46

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37	Reducing noise from a Stirling micro cooler used with an InSb diode. Proceedings of SPIE, 2014, , .	0.8	1
38	THE CARBON INVENTORY IN A QUIESCENT, FILAMENTARY MOLECULAR CLOUD IN G328. Astrophysical Journal, 2014, 782, 72.	4.5	10
39	THE OPTICAL LUMINOSITY FUNCTION OF GAMMA-RAY BURSTS DEDUCED FROM ROTSE-III OBSERVATIONS. Astrophysical Journal, 2014, 795, 103.	4.5	3
40	Meteorological Data for the Astronomical Site at Dome A, Antarctica. Publications of the Astronomical Society of the Pacific, 2014, 126, 868-881.	3.1	59
41	The care and feeding of an Antarctic telescope. Physics Today, 2013, 66, 60-61.	0.3	1
42	PHOTOMETRY OF VARIABLE STARS FROM DOME A, ANTARCTICA: RESULTS FROM THE 2010 OBSERVING SEASON. Astronomical Journal, 2013, 146, 139.	4.7	43
43	The Gattini South Pole UV experiment. , 2012, , .		0
44	Winter sky brightness and cloud cover at Dome A, Antarctica. Proceedings of the International Astronomical Union, 2012, 8, 34-37.	0.0	2
45	Airglow and Aurorae from Dome A, Antarctica. Proceedings of the International Astronomical Union, 2012, 8, 302-303.	0.0	0
46	Where is Ridge A?. Proceedings of the International Astronomical Union, 2012, 8, 304-305.	0.0	0
47	Autonomous observatories for the Antarctic plateau. Proceedings of the International Astronomical Union, 2012, 8, 6-14.	0.0	0
48	Site characteristics of the high Antarctic plateau. Proceedings of the International Astronomical Union, 2012, 8, 15-24.	0.0	2
49	First look at HRCAM images from Dome A, Antarctica. Proceedings of the International Astronomical Union, 2012, 8, 38-41.	0.0	1
50	Opportunities for Terahertz Facilities on the High Plateau. Proceedings of the International Astronomical Union, 2012, 8, 256-263.	0.0	0
51	Precipitable Water Vapor above Dome A, Antarctica, Determined from Diffuse Optical Sky Spectra. Publications of the Astronomical Society of the Pacific, 2012, 124, 74-83.	3.1	18
52	Airglow and Aurorae at Dome A, Antarctica. Publications of the Astronomical Society of the Pacific, 2012, 124, 637-649.	3.1	17
53	Where is Ridge A?. Proceedings of SPIE, 2012, , .	0.8	1
54	PLATO-R: a new concept for Antarctic science. , 2012, , .		1

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55	The $\hat{\gamma}$ -ray binary LS 5039: mass and orbit constraints from MOST observations... Monthly Notices of the Royal Astronomical Society, 2011, 411, 1293-1300.	4.4	42
56	PHOTOMETRY OF VARIABLE STARS FROM DOME A, ANTARCTICA. Astronomical Journal, 2011, 142, 155.	4.7	41
57	Snodar: 2009 performance at Dome A, Antarctica. Proceedings of SPIE, 2010, , .	0.8	0
58	Future development of the PLATO Observatory for Antarctic science. Proceedings of SPIE, 2010, , .	0.8	12
59	Optical sky brightness at Dome A, Antarctica, from the Nigel experiment. Proceedings of SPIE, 2010, , .	0.8	7
60	GRB 090902B: AFTERGLOW OBSERVATIONS AND IMPLICATIONS. Astrophysical Journal, 2010, 714, 799-804.	4.5	36
61	GRB 081008: FROM BURST TO AFTERGLOW AND THE TRANSITION PHASE IN BETWEEN. Astrophysical Journal, 2010, 711, 870-880.	4.5	25
62	Dome C site testing: implications for science and technology of future telescopes. EAS Publications Series, 2010, 40, 33-43.	0.3	4
63	Dome A site testing and future plans. EAS Publications Series, 2010, 40, 65-72.	0.3	28
64	The best site on Earth?. EAS Publications Series, 2010, 40, 89-96.	0.3	2
65	PLATOâ€™a robotic observatory for the Antarctic plateau. EAS Publications Series, 2010, 40, 79-84.	0.3	9
66	THz Astrophysics from Dome A. EAS Publications Series, 2010, 40, 275-280.	0.3	0
67	SKY BRIGHTNESS AND TRANSPARENCY IN THE i-BAND AT DOME A, ANTARCTICA. Astronomical Journal, 2010, 140, 602-611.	4.7	47
68	The First Release of the CSTAR Point Source Catalog from Dome A, Antarctica. Publications of the Astronomical Society of the Pacific, 2010, 122, 347-353.	3.1	34
69	Exceptional Terahertz Transparency and Stability above Dome A, Antarctica. Publications of the Astronomical Society of the Pacific, 2010, 122, 490-494.	3.1	64
70	Thickness of the Atmospheric Boundary Layer Above Dome A, Antarctica, during 2009. Publications of the Astronomical Society of the Pacific, 2010, 122, 1122-1131.	3.1	59
71	Gattini 2010: cutting edge science at the bottom of the world. , 2010, , .		5
72	Performance of the autonomous PLATO Antarctic Observatory over two full years. Proceedings of SPIE, 2010, , .	0.8	3

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73	The Science Case for PILOT I: Summary and Overview. Publications of the Astronomical Society of Australia, 2009, 26, 379-396.	3.4	12
74	Binarity and multiperiodicity in high-amplitude δ Scuti stars. Monthly Notices of the Royal Astronomical Society, 2009, 394, 995-1008.	4.4	20
75	The PLATO Dome A Site-Testing Observatory: Instrumentation and First Results. Publications of the Astronomical Society of the Pacific, 2009, 121, 174-184.	3.1	50
76	Overcoming the Boundary Layer Turbulence at Dome C: Ground-Layer Adaptive Optics versus Tower. Publications of the Astronomical Society of the Pacific, 2009, 121, 668-679.	3.1	29
77	Where Is the Best Site on Earth? Domes A, B, C, and F, and Ridges A and B. Publications of the Astronomical Society of the Pacific, 2009, 121, 976-992.	3.1	66
78	The Science Case for PILOT II: the Distant Universe. Publications of the Astronomical Society of Australia, 2009, 26, 397-414.	3.4	6
79	The Science Case for PILOT III: the Nearby Universe. Publications of the Astronomical Society of Australia, 2009, 26, 415-438.	3.4	7
80	LOOKING INTO THE FIREBALL: ROTSE-III AND <i>SWIFT</i> OBSERVATIONS OF EARLY GAMMA-RAY BURST AFTERGLOWS. Astrophysical Journal, 2009, 702, 489-505.	4.5	87
81	The University of New South Wales Extrasolar Planet Search: a catalogue of variable stars from fields observed between 2004 and 2007. Monthly Notices of the Royal Astronomical Society, 2008, 385, 1749-1763.	4.4	18
82	Adaptive Optics Sky Coverage for Dome C Telescopes. Publications of the Astronomical Society of the Pacific, 2008, 120, 1119-1127.	3.1	3
83	The Dome C Gattini sky brightness cameras: results from the first year of operation. EAS Publications Series, 2008, 33, 13-19.	0.3	2
84	Astrophysics from Dome A. EAS Publications Series, 2008, 33, 301-306.	0.3	5
85	PILOT-like telescope potential. EAS Publications Series, 2008, 33, 207-211.	0.3	2
86	Snodar: a new instrument to measure the height of the boundary layer on the Antarctic plateau. , 2008, , .		12
87	Chinese Small Telescope ARray (CSTAR) for Antarctic Dome A. Proceedings of SPIE, 2008, , .	0.8	46
88	PLATO control and robotics. Proceedings of SPIE, 2008, , .	0.8	7
89	Gattini: a multisite campaign for the measurement of sky brightness in Antarctica. Proceedings of SPIE, 2008, , .	0.8	13
90	Big innovations in a small instrument: technical challenges in a new CCD system design for the Automated Patrol Telescope. , 2008, , .		0

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91	PLATO power: a robust low environmental impact power generation system for the Antarctic plateau. Proceedings of SPIE, 2008, , .	0.8	13
92	Characterisation of the Dome C Atmospheric Boundary Layer Turbulence with a Non-Doppler Acoustic Radar. EAS Publications Series, 2007, 25, 31-34.	0.3	2
93	Exploring Broadband GRB Behavior during γ -Ray Emission. Astrophysical Journal, 2007, 657, 925-941.	4.5	51
94	Detection of GRB 060927 at $z = 5.47$: Implications for the Use of Gamma-Ray Bursts as Probes of the End of the Dark Ages. Astrophysical Journal, 2007, 669, 1-9.	4.5	56
95	The Dark Side of ROTSE Prompt GRB Observations. Astrophysical Journal, 2007, 669, 1107-1114.	4.5	35
96	Dome C's Atmospheric Conditions: Implications for Astronomy. Chinese Astronomy and Astrophysics, 2007, 31, 221-227.	0.3	2
97	The first high-amplitude δ Scuti star in an eclipsing binary system. Monthly Notices of the Royal Astronomical Society, 2007, 382, 239-244.	4.4	23
98	The Gattini Cameras for Optical Sky Brightness Measurements at Dome C, Antarctica. EAS Publications Series, 2007, 25, 35-41.	0.3	2
99	PILOT – the Pathfinder for an International Large Optical Telescope. EAS Publications Series, 2007, 25, 255-259.	0.3	11
100	Atmospheric Scintillation at Dome C, Antarctica: Implications for Photometry and Astrometry. Publications of the Astronomical Society of the Pacific, 2006, 118, 924-932.	3.1	48
101	A large array of telescopes in Antarctica with all-sky imaging every five seconds. , 2006, 6267, 480.		1
102	On the Search for Transits of the Planets Orbiting Gliese 876. Astrophysical Journal, 2006, 653, 700-707.	4.5	39
103	Nigel and the optical sky brightness at Dome C, Antarctica. , 2006, , .		8
104	The Gattini cameras for optical sky brightness measurements in Antarctica. , 2006, , .		5
105	Atmospheric scintillation at Dome C, Antarctica. Proceedings of the International Astronomical Union, 2006, 2, 698-699.	0.0	0
106	LAPCAT: the Large Antarctic Plateau Clear-Aperture Telescope. , 2006, 6267, 469.		6
107	Optical Light Curve and Cooling Break of GRB 050502A. Astrophysical Journal, 2006, 636, 959-966.	4.5	19
108	The Anomalous Early Afterglow of GRB 050801. Astrophysical Journal, 2006, 638, L5-L8.	4.5	46

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109	Ground-layer turbulence profiling using a lunar SHABAR. , 2006, , .		1
110	A new detached K7 dwarf eclipsing binary system. Monthly Notices of the Royal Astronomical Society, 2006, 370, 1529-1533.	4.4	21
111	Early Time Observations of the GRB 050319 Optical Transient. Astrophysical Journal, 2006, 640, 402-406.	4.5	39
112	Mass seeing measurements from Dome C. EAS Publications Series, 2005, 14, 19-24.	0.3	3
113	Pathfinder for an International Large Optical Telescope. EAS Publications Series, 2005, 14, 321-324.	0.3	4
114	Prompt Optical Detection of GRB 050401 with ROTSE-IIIa. Astrophysical Journal, 2005, 631, L121-L124.	4.5	56
115	Exoplanet detection from Dome C, Antarctica: opportunities and challenges. Proceedings of the International Astronomical Union, 2005, 1, 297-300.	0.0	0
116	Site Testing at Dome C – Cloud Statistics from the ICECAM Experiment. Highlights of Astronomy, 2005, 13, 932-934.	0.0	6
117	Searching for Extrasolar Planets from UNSW. Proceedings of the International Astronomical Union, 2005, 1, 193-198.	0.0	0
118	Science Programs for a 2-m Class Telescope at Dome C, Antarctica: PILOT, the Pathfinder for an International Large Optical Telescope. Publications of the Astronomical Society of Australia, 2005, 22, 199-235.	3.4	45
119	Intra-Pixel Sensitivity Variation and Charge Transfer Inefficiency – Results of CCD Scans. Publications of the Astronomical Society of Australia, 2005, 22, 257-266.	3.4	24
120	Cloud Imaging from Meteorological Satellites and its Application to Robotic Observing. Publications of the Astronomical Society of Australia, 2005, 22, 306-310.	3.4	0
121	The University of New South Wales Extrasolar Planet Search: methods and first results from a field centred on NGC 6633. Monthly Notices of the Royal Astronomical Society, 2005, 360, 703-717.	4.4	47
122	A Search for Untriggered GRB Afterglows with ROTSE-III. Astrophysical Journal, 2005, 631, 1032-1038.	4.5	39
123	Automated Site Testing from Antarctica. EAS Publications Series, 2005, 14, 7-12.	0.3	0
124	Exceptional astronomical seeing conditions above Dome C in Antarctica. Nature, 2004, 431, 278-281.	27.8	218
125	The Early Optical Afterglow of GRB 030418 and Progenitor Mass Loss. Astrophysical Journal, 2004, 601, 1013-1018.	4.5	49
126	AFOS: probing the UV-visible potential of the Antarctic plateau. , 2004, , .		4

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127	Submillimeter Site Testing at Dome C, Antarctica. Publications of the Astronomical Society of Australia, 2004, 21, 256-263.	3.4	31
128	The ROTSE-III Robotic Telescope System. Publications of the Astronomical Society of the Pacific, 2003, 115, 132-140.	3.1	157
129	ROTSE-III Observations of the Early Afterglow from GRB 030329. Astrophysical Journal, 2003, 596, L151-L154.	4.5	12
130	Observations of the Antarctic infrared sky spectral brightness. , 2002, 4836, 176.		3
131	Operation of the Near Infrared Sky Monitor at the South Pole. Publications of the Astronomical Society of Australia, 2002, 19, 328-336.	3.4	16
132	Anarctica as a launchpad for space astronomy missions. , 2002, 4835, 110.		1
133	Design and performance of the Douglas Mawson telescope. , 2002, , .		1
134	Photodissociation regions and star formation in the Carina nebula. Monthly Notices of the Royal Astronomical Society, 2002, 331, 85-97.	4.4	50
135	Shocked molecular gas towards the supernova remnant G359.1-0.5 and the Snake. Monthly Notices of the Royal Astronomical Society, 2002, 331, 537-544.	4.4	26
136	Science Goals for Antarctic Infrared Telescopes. Publications of the Astronomical Society of Australia, 2001, 18, 158-165.	3.4	11
137	High Spectral and Spatial Resolution Observations of Shocked Molecular Hydrogen at the Galactic Center. Astrophysical Journal, 2001, 560, 749-762.	4.5	54
138	Discovery of molecular hydrogen line emission associated with methanol maser emission. Monthly Notices of the Royal Astronomical Society, 2001, 324, 1102-1108.	4.4	16
139	A Wide-Field CCD Survey for Centaurs and Kuiper Belt Objects. Astronomical Journal, 2000, 120, 2687-2694.	4.7	51
140	Fluorescent molecular hydrogen in the Eagle nebula. Monthly Notices of the Royal Astronomical Society, 1999, 304, 98-108.	4.4	19
141	Infrared Sky Brightness Monitors for Antarctica. Publications of the Astronomical Society of the Pacific, 1999, 111, 765-771.	3.1	13
142	Looking Deep from the South Pole: Star Formation in the Thermal Infrared. Globular Clusters - Guides To Galaxies, 1999, , 201-208.	0.1	2
143	CCD Photometry of the $\hat{\iota}$ Scuti star FG Virginis During the 1995 Multi-Site Campaign. Astrophysics and Space Science, 1998, 260, 281-290.	1.4	0
144	Near-infrared line and radio continuum imaging of the Circinus galaxy. Monthly Notices of the Royal Astronomical Society, 1998, 293, 189-196.	4.4	4

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145	Antarctic Fiber Optic Spectrometer. Publications of the Astronomical Society of the Pacific, 1998, 110, 306-316.	3.1	8
146	Molecular hydrogen line emission from the reflection nebula Parsamyan 18. Monthly Notices of the Royal Astronomical Society, 1998, 294, 338-346.	4.4	8
147	Near-infrared line and radio continuum imaging of the Circinus galaxy. Monthly Notices of the Royal Astronomical Society, 1998, 293, 189-196.	4.4	16
148	UNSWIRF: the University of New South Wales infrared Fabry-Perot. , 1998, , .		0
149	UNSWIRF: A Tunable Imaging Spectrometer for the Near-Infrared. Publications of the Astronomical Society of Australia, 1998, 15, 228-239.	3.4	16
150	ABU/SPIREX: South Pole thermal IR experiment. , 1998, , .		17
151	Site conditions for astronomy at the South Pole. , 1998, , .		2
152	South Pole Observations of the Near-Infrared Sky Brightness. Publications of the Astronomical Society of the Pacific, 1996, 108, 721.	3.1	53
153	An Automated Astrophysical Observatory for Antarctica. Publications of the Astronomical Society of Australia, 1996, 13, 35-38.	3.4	25
154	Remote Control of Astronomical Instruments via the Internet. Publications of the Astronomical Society of Australia, 1996, 13, 17-21.	3.4	10
155	JACARA's Plans. Publications of the Astronomical Society of Australia, 1996, 13, 33-34.	3.4	3
156	The university of New South Wales automated patrol telescope. Experimental Astronomy, 1994, 5, 81-85.	3.7	0
157	High-temperature expansion for the single-band Hubbard model. Physical Review B, 1992, 46, 6328-6337.	3.2	35
158	H α and H β Imaging of the Planetary Nebula NGC 6302. Publications of the Astronomical Society of Australia, 1990, 8, 360-363.	3.4	3
159	Detection of highly ionized silicon in the planetary nebulae NGC 6302 and NGC 6537. Astrophysical Journal, 1988, 331, 532.	4.5	35