Marcin Sokolowski

List of Publications by Year
in descending order

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118	4,490	471509	128289
papers	citations	17 h-index	60 g-index

118	118	118	8616
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Multi-messenger Observations of a Binary Neutron Star Merger[*]. Astrophysical Journal Letters, 2017, 848, L12.	8.3	2,805
2	Broadband observations of the naked-eye Î³-ray burst GRBâ€‰080319B. Nature, 2008, 455, 183-188.	27.8	449
3	Follow Up of GW170817 and Its Electromagnetic Counterpart by Australian-Led Observing Programmes. Publications of the Astronomical Society of Australia, 2017, 34, .	3.4	142
4	Pi of the Sky â€“ all-sky, real-time search for fast optical transients. New Astronomy, 2005, 10, 409-416.	1.8	119
5	BIGHORNS - Broadband Instrument for Global HydrOgen ReioNisation Signal. Publications of the Astronomical Society of Australia, 2015, 32, .	3.4	101
6	Implementation and testing of the first prompt search forÂgravitational wave transients with electromagnetic counterparts. Astronomy and Astrophysics, 2012, 539, A124.	5.1	84
7	FIRST SEARCHES FOR OPTICAL COUNTERPARTS TO GRAVITATIONAL-WAVE CANDIDATE EVENTS. Astrophysical Journal, Supplement Series, 2014, 211, 7.	7.7	57
8	Characterization of a Low-Frequency Radio Astronomy Prototype Array in Western Australia. IEEE Transactions on Antennas and Propagation, 2015, 63, 5433-5442.	5.1	57
9	Calibration and Stokes Imaging with Full Embedded Element Primary Beam Model for the Murchison Widefield Array. Publications of the Astronomical Society of Australia, 2017, 34, .	3.4	51
10	The Challenges of Low-Frequency Radio Polarimetry: Lessons from the Murchison Widefield Array. Publications of the Astronomical Society of Australia, 2017, 34, .	3.4	45
11	No Low-frequency Emission from Extremely Bright Fast Radio Bursts. Astrophysical Journal Letters, 2018, 867, L12.	8.3	42
12	Science with the Murchison Widefield Array: Phase I results and Phase II opportunities. Publications of the Astronomical Society of Australia, 2019, 36, .	3.4	29
13	Spectral Flattening at Low Frequencies in Crab Giant Pulses. Astrophysical Journal, 2017, 851, 20.	4.5	26
14	?? of the Sky? - automated search for fast optical transients over the whole sky. Astronomische Nachrichten, 2004, 325, 674-674.	1.2	24
15	THE IMPACT OF THE IONOSPHERE ON GROUND-BASED DETECTION OF THE GLOBAL EPOCH OF REIONIZATION SIGNAL. Astrophysical Journal, 2015, 813, 18.	4.5	24
16	PSF modelling for very wide-field CCD astronomy. Astronomy and Astrophysics, 2013, 551, A119.	5.1	20
17	Measuring the global 21-cm signal with the MWA-I: improved measurements of the Galactic synchrotron background using lunar occultation. Monthly Notices of the Royal Astronomical Society, 2018, 481, 5034-5045.	4.4	20
18	Observations of Low-frequency Radio Emission from Millisecond Pulsars and Multipath Propagation in the Interstellar Medium. Astrophysical Journal, Supplement Series, 2018, 238, 1.	7.7	17

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19	The Aperture Array Verification System 1: System overview and early commissioning results. Astronomy and Astrophysics, 2021, 655, A5.	5.1	16
20	The Engineering Development Array: A Low Frequency Radio Telescope Utilising SKA Precursor Technology. Publications of the Astronomical Society of Australia, 2017, 34, .	3.4	15
21	Search for GRB related prompt optical emission and other fast varying objects with â€œPi of the Skyâ€• detector. Astrophysics and Space Science, 2007, 309, 531-535.	1.4	12
22	The All-Sky SignAl Short-Spacing INterferometer (ASSASSIN) â€“ I. Global-sky measurements with the Engineering Development Array-2. Monthly Notices of the Royal Astronomical Society, 2020, 499, 52-67.	4.4	12
23	A survey of spatially and temporally resolved radio frequency interference in the FM band at the Murchison Radio-astronomy Observatory. Publications of the Astronomical Society of Australia, 2020, 37, .	3.4	12
24	Noise Temperature of Phased Array Radio Telescope: The Murchison Widefield Array and the Engineering Development Array. IEEE Transactions on Antennas and Propagation, 2020, 68, 5395-5404.	5.1	12
25	Murchison Widefield Array rapid-response observations of the short GRB 180805A. Publications of the Astronomical Society of Australia, 2021, 38, .	3.4	12
26	Discovery of a Steep-spectrum Low-luminosity Pulsar with the Murchison Widefield Array. Astrophysical Journal Letters, 2021, 911, L26.	8.3	12
27	â€œPi of the Skyâ€•Detector. Advances in Astronomy, 2010, 2010, 1-9.	1.1	11
28	The statistics of low frequency radio interference at the Murchison Radio-astronomy Observatory. , 2015, , .		10
29	The Australian Radio Quiet Zone â€” Western Australia: Objectives, implementation and early measurements. , 2016, , .		10
30	Limits on the Flux of Nuclearites and Other Heavy Compact Objects from the Pi of the Sky Project. Physical Review Letters, 2020, 125, 091101.	7.8	10
31	A prototype model for evaluating SKA-LOW station calibration. , 2020, , .		10
32	Electromagnetic modelling of the SKA-LOW AAVS2 prototype. , 2020, , .		10
33	<title>"Pi of the sky": robotic search for cosmic flashes</title>. , 2006, 6159, 154.		9
34	Early-time searches for coherent radio emission from short GRBs with the Murchison Widefield Array. Publications of the Astronomical Society of Australia, 2022, 39, .	3.4	9
35	A Southern-Hemisphere all-sky radio transient monitor for SKA-Low prototype stations. Publications of the Astronomical Society of Australia, 2021, 38, .	3.4	8
36	Sensitivity of a low-frequency polarimetric radio interferometer. Astronomy and Astrophysics, 2021, 646, A143.	5.1	8

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37	Holographic Calibration of Phased Array Telescopes. Radio Science, 2021, 56, e2020RS007171.	1.6	8
38	Uncued Detection and Initial Orbit Determination From Short Observations With the Murchison Widefield Array. IEEE Aerospace and Electronic Systems Magazine, 2021, 36, 16-30.	1.3	8
39	Establishing the Capabilities of the Murchison Widefield Array as a Passive Radar for the Surveillance of Space. Remote Sensing, 2022, 14, 2571.	4.0	8
40	Absolute properties of BG Ind - a bright F3 system just leaving the main sequenceâ˜…. Monthly Notices of the Royal Astronomical Society, 2011, 414, 2479-2485.	4.4	7
41	A VOEvent-based automatic trigger system for the Murchison Widefield Array. Publications of the Astronomical Society of Australia, 2019, 36, .	3.4	7
42	Calibration database for the Murchison Widefield Array All-Sky Virtual Observatory. Publications of the Astronomical Society of Australia, 2020, 37, .	3.4	7
43	Engineering Development Array 2: design, performance, and lessons from an SKA-Low prototype station. Journal of Astronomical Telescopes, Instruments, and Systems, 2021, 8, .	1.8	7
44	The catalog of short periods stars from the â€œPi of the Skyâ€•data. New Astronomy, 2008, 13, 414-417.	1.8	6
45	Characterization of the SKA1-Low prototype station Aperture Array Verification System 2. Journal of Astronomical Telescopes, Instruments, and Systems, 2022, 8, .	1.8	6
46	General overview of the "Pi of the Sky" system. Proceedings of SPIE, 2009, , .	0.8	5
47	V473 Lyr, a modulated, period-doubled Cepheid, and UÂTrA, a double-mode Cepheid observed by MOST. Monthly Notices of the Royal Astronomical Society, 0, , stw3345.	4.4	5
48	Advanced, efficient primary beam modeling for the Murchison Widefield Array radio telescope. , 2016, , .		5
49	Spectroscopy with the Engineering Development Array: cold H+ at 63ÂMHz towards the Galactic Centre. Monthly Notices of the Royal Astronomical Society, 2019, 487, 4737-4750.	4.4	5
50	Trajectory, recovery, and orbital history of the Madura Cave meteorite. Meteoritics and Planetary Science, 2022, 57, 1328-1338.	1.6	5
51	<title>Simulation of point-like optical flashes in the sky</title>. , 2004, , .		4
52	<title>Full Pi of the Sky system and simulation</title>. Proceedings of SPIE, 2007, , .	0.8	4
53	The low frequency receivers for SKA 1-low: Design and verification. , 2017, , .		4
54	A Measure of Well-Spread Points in Noise Wave-Based Source Matrix for Wideband Noise Parameter Measurement: The SKA-Low Example. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 1783-1793.	4.6	4

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55	Science with the Murchison Widefield Array: Phase I results and Phase II opportunities â€“ Corrigendum. Publications of the Astronomical Society of Australia, 2020, 37, .	3.4	4
56	A broadband radio view of transient jet ejecta in the black hole candidate X-ray binary MAXI J1535â€“571. Publications of the Astronomical Society of Australia, 2021, 38, .	3.4	4
57	System equivalent flux density of a low-frequency polarimetric phased array interferometer. Astronomy and Astrophysics, 2022, 660, A134.	5.1	4
58	High time resolution search for prompt radio emission from the long GRB 210419A with the Murchison Widefield Array. Monthly Notices of the Royal Astronomical Society, 2022, 514, 2756-2768.	4.4	4
59	<title>All sky scan analysis algorithm for Pi-of-the-Sky project</title>. , 2006, , .		3
60	<title>New low noise CCD cameras for Pi-of-the-Sky project</title>. , 2006, 6347, 206.		3
61	Gamma-ray bursts and GRB080319B. , 2009, , .		3
62	Automated Detection of Short Optical Transients of Astrophysical Origin in Real Time. Advances in Astronomy, 2010, 2010, 1-11.	1.1	3
63	PiÂofÂtheÂSkyâ€”robotic telescope. Proceedings of SPIE, 2013, , .	0.8	3
64	Pi of the Sky robotic observatories in Chile and Spain. Proceedings of SPIE, 2014, , .	0.8	3
65	The statistics of radio frequency interference propagating from long distances to the Murchison radio-astronomy observatory. , 2016, , .		3
66	MWA tied-array processing IV: A multi-pixel beamformer for pulsar surveys and ionospheric corrected localisation. Publications of the Astronomical Society of Australia, 2022, 39, .	3.4	3
67	<title>Search for optical flashes accompanying gamma ray bursts Pi of the Sky collaboration</title>. , 2004, , .		2
68	Pi of the sky: search for optical flashes of extragalactic origin. , 2005, , .		2
69	<title>Study of rapidly varying astrophysical objects with the Pi-of-the-Sky apparatus</title>. , 2006, , .		2
70	<title>Limits on GRB early optical emission from Pi-of-the-Sky system</title>. , 2006, , .		2
71	<title>Data transmission protocol for Pi-of-the-Sky cameras</title>. , 2006, , .		2
72	Search for correlations of GRB and cosmic rays. Astrophysics and Space Science, 2007, 309, 471-475.	1.4	2

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73	Present status of Pi of the Sky telescopes. , 2011, , .		2
74	Parallax in â€œPi of the Skyâ€•project. Advances in Space Research, 2013, 52, 1349-1354.	2.6	2
75	The SKA1_Low Telescope: The Station Design and Prototyping. , 2018, , .		2
76	Possible use of the 'Pi of the Sky' system in a space situational awareness program. , 2009, , .		2
77	A calibration and imaging strategy at 300 MHz with the Murchison Widefield Array (MWA). Publications of the Astronomical Society of Australia, 2021, 38, .	3.4	2
78	<title>Variable stars study in "Pi of the Sky" project</title>. , 2006, , .		1
79	<title>Status of the full scale Pi-of-the-Sky project</title>. , 2006, , .		1
80	<title>Algorithms for cosmic flash recognition</title>. , 2006, 6159, 195.		1
81	<title>PiMan: system manager for "Pi of the Sky" experiment</title>. , 2006, , .		1
82	Prompt optical observations of GRBs with â€œPi of the Skyâ€•system. , 2009, , .		1
83	Estimation of space debris detection possibility by Pi of the Sky telescopes. , 2010, , .		1
84	Parallax in Pi of the Sky project. , 2012, , .		1
85	Status of Pi of the Sky Telescopes in Spain and Chile. EAS Publications Series, 2013, 61, 479-481.	0.3	1
86	Status of the Pi of the Sky telescopes in Spain and Chile. , 2015, , .		1
87	<title>Web interface for star databases of the Pi of the Sky experiment</title>. , 2007, , .		1
88	Improving photometry of the Pi of the Sky. Proceedings of SPIE, 2010, , .	0.8	1
89	Pi of the Sky in LSC-Virgo's EM follow-up in O1 science run. Proceedings of SPIE, 2017, , .	0.8	1
90	DUG Insight: A software package for big-data analysis and visualisation, and its demonstration for passive radar space situational awareness using radio telescopes. Astronomy and Computing, 2022, , 100619.	1.7	1

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91	Apparatus to search for optical flashes of extragalactic origin. , 0, , .		0
92	Search for GRB optical counterparts with â€œPi of the Skyâ€•apparatus. AIP Conference Proceedings, 2005, , .	0.4	0
93	<title>"Pi of the Sky" robotic telescope</title>. , 2006, , .		0
94	<title>Image acquisition in the Pi-of-the-Sky project</title>. , 2006, 6347, 215.		0
95	<title>Observing strategy and supporting tools for the "Pi of the Sky" project</title>. , 2006, , .		0
96	<title>Databases for the Pi-of-the-Sky experiment</title>. , 2006, 6347, 246.		0
97	<title>Providing on-line access to the Pi of the Sky data</title>. Proceedings of SPIE, 2007, , .	0.8	0
98	Detection of short optical transients of astrophysical origin in real time. Proceedings of SPIE, 2009, , .	0.8	0
99	Analysis of Cepheids based on photometric data from the Pi of the Sky experiment. Proceedings of SPIE, 2010, , .	0.8	0
100	Pi of the Sky catalogue of the variable stars from 2006-2007 data. , 2010, , .		0
101	PiMan: System Manager of the â€œPi of the Skyâ€•Experiment. Advances in Astronomy, 2010, 2010, 1-9.	1.1	0
102	Pointing model of new Pi of the Sky detector in Spain. Proceedings of SPIE, 2011, , .	0.8	0
103	Observations of Cepheids in Pi of the Sky experiment. Proceedings of SPIE, 2011, , .	0.8	0
104	What is new on the second edition of the variable stars catalogue from the Pi of the Sky data?. , 2011, , .		0
105	Photometric analysis of the Pi of the Sky data. Proceedings of SPIE, 2012, , .	0.8	0
106	Photometric analysis of Pi of the Sky data. Proceedings of SPIE, 2013, , .	0.8	0
107	Prompt searches for optical signals from gravitational wave transient candidates with Pi of the Sky. Proceedings of SPIE, 2013, , .	0.8	0
108	PHOTOMETRIC ANALYSIS OF PI OF THE SKY DATA. Acta Polytechnica, 2014, 54, 225-230.	0.6	0

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109	C7 multi-messenger astronomy of GW sources. General Relativity and Gravitation, 2014, 46, 1.	2.0	0
110	Pi of the Sky preparations towards advanced gravitational detector era. , 2014, , .		0
111	Summary of the Pi of the Sky photometry improving methods. , 2014, , .		0
112	Pi of the Sky preparations for LSC-Virgo's electromagnetic follow-up project. Proceedings of SPIE, 2015, , .	0.8	0
113	Pi of the Sky involvement in LSC-Virgo electromagnetic follow-up project. Proceedings of SPIE, 2016, , .	0.8	0
114	Noise Parameter Measurement and Its Application in Receiving Phased Arrays for Low-Frequency Radio Astronomy. , 2019, , .		0
115	<title>Period and variability type determination for the stars in the Pi of the Sky data</title>. , 2007, , .		0
116	Pi of the Sky observation of GRB160625B. , 2017, , .		0
117	What is the SKA-Low sensitivity for your favourite radio source?. Publications of the Astronomical Society of Australia, 2022, 39, .	3.4	0
118	A High Time Resolution All-Sky Monitor for Fast Radio Bursts and Technosignatures. , 2022, , .		0