

# Marcin Sokolowski

## List of Publications by Year in descending order

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Version: 2024-02-01

118  
papers

4,490  
citations

471509

17  
h-index

128289

60  
g-index

118  
all docs

118  
docs citations

118  
times ranked

8616  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of the SKA1-Low prototype station Aperture Array Verification System 2. Journal of Astronomical Telescopes, Instruments, and Systems, 2022, 8, .	1.8	6
2	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
3	System equivalent flux density of a low-frequency polarimetric phased array interferometer. Astronomy and Astrophysics, 2022, 660, A134.	5.1	4
4	What is the SKA-Low sensitivity for your favourite radio source?. Publications of the Astronomical Society of Australia, 2022, 39, .	3.4	0
5	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
6	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
7	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
8	Trajectory, recovery, and orbital history of the Madura Cave meteorite. Meteoritics and Planetary Science, 2022, 57, 1328-1338.	1.6	5
9	A High Time Resolution All-Sky Monitor for Fast Radio Bursts and Technosignatures. , 2022, , .		0
10	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
11	Murchison Widefield Array rapid-response observations of the short GRB 180805A. Publications of the Astronomical Society of Australia, 2021, 38, .	3.4	12
12	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
13	Sensitivity of a low-frequency polarimetric radio interferometer. Astronomy and Astrophysics, 2021, 646, A143.	5.1	8
14	Holographic Calibration of Phased Array Telescopes. Radio Science, 2021, 56, e2020RS007171.	1.6	8
15	Discovery of a Steep-spectrum Low-luminosity Pulsar with the Murchison Widefield Array. Astrophysical Journal Letters, 2021, 911, L26.	8.3	12
16	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
17	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
18	The Aperture Array Verification System 1: System overview and early commissioning results. Astronomy and Astrophysics, 2021, 655, A5.	5.1	16

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19	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
20	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
21	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
22	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
23	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
24	Calibration database for the Murchison Widefield Array All-Sky Virtual Observatory. Publications of the Astronomical Society of Australia, 2020, 37, .	3.4	7
25	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
26	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
27	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
28	A prototype model for evaluating SKA-LOW station calibration. , 2020, , .		10
29	Electromagnetic modelling of the SKA-LOW AAVS2 prototype. , 2020, , .		10
30	Noise Parameter Measurement and Its Application in Receiving Phased Arrays for Low-Frequency Radio Astronomy. , 2019, , .		0
31	A VOEvent-based automatic trigger system for the Murchison Widefield Array. Publications of the Astronomical Society of Australia, 2019, 36, .	3.4	7
32	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
33	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
34	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
35	No Low-frequency Emission from Extremely Bright Fast Radio Bursts. Astrophysical Journal Letters, 2018, 867, L12.	8.3	42
36	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

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37	The SKA1_Low Telescope: The Station Design and Prototyping. , 2018, , .		2
38	Multi-messenger Observations of a Binary Neutron Star Merger<sup>*</sup>. Astrophysical Journal Letters, 2017, 848, L12.	8.3	2,805
39	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
40	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
41	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
42	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
43	The low frequency receivers for SKA 1-low: Design and verification. , 2017, , .		4
44	Spectral Flattening at Low Frequencies in Crab Giant Pulses. Astrophysical Journal, 2017, 851, 20.	4.5	26
45	Pi of the Sky in LSC-Virgo's EM follow-up in O1 science run. Proceedings of SPIE, 2017, , .	0.8	1
46	Pi of the Sky observation of GRB160625B. , 2017, , .		0
47	Advanced, efficient primary beam modeling for the Murchison Widefield Array radio telescope. , 2016, , .		5
48	The Australian Radio Quiet Zone â€” Western Australia: Objectives, implementation and early measurements. , 2016, , .		10
49	The statistics of radio frequency interference propagating from long distances to the Murchison radio-astronomy observatory. , 2016, , .		3
50	Pi of the Sky involvement in LSC-Virgo electromagnetic follow-up project. Proceedings of SPIE, 2016, , .	0.8	0
51	THE IMPACT OF THE IONOSPHERE ON GROUND-BASED DETECTION OF THE GLOBAL EPOCH OF REIONIZATION SIGNAL. Astrophysical Journal, 2015, 813, 18.	4.5	24
52	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
53	Status of the Pi of the Sky telescopes in Spain and Chile. , 2015, , .		1
54	The statistics of low frequency radio interference at the Murchison Radio-astronomy Observatory. , 2015, , .		10

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55	Pi of the Sky preparations for LSC-Virgo's electromagnetic follow-up project. Proceedings of SPIE, 2015, , .	0.8	0
56	BIGHORNS - Broadband Instrument for Global HydrOgen ReioNisation Signal. Publications of the Astronomical Society of Australia, 2015, 32, .	3.4	101
57	PHOTOMETRIC ANALYSIS OF PI OF THE SKY DATA. Acta Polytechnica, 2014, 54, 225-230.	0.6	0
58	FIRST SEARCHES FOR OPTICAL COUNTERPARTS TO GRAVITATIONAL-WAVE CANDIDATE EVENTS. Astrophysical Journal, Supplement Series, 2014, 211, 7.	7.7	57
59	C7 multi-messenger astronomy of GW sources. General Relativity and Gravitation, 2014, 46, 1.	2.0	0
60	Pi of the Sky preparations towards advanced gravitational detector era. , 2014, , .		0
61	Summary of the Pi of the Sky photometry improving methods. , 2014, , .		0
62	Pi of the Sky robotic observatories in Chile and Spain. Proceedings of SPIE, 2014, , .	0.8	3
63	Parallax in "Pi of the Sky"project. Advances in Space Research, 2013, 52, 1349-1354.	2.6	2
64	Status of Pi of the Sky Telescopes in Spain and Chile. EAS Publications Series, 2013, 61, 479-481.	0.3	1
65	Photometric analysis of Pi of the Sky data. Proceedings of SPIE, 2013, , .	0.8	0
66	"Pi of the Sky"robotic telescope. Proceedings of SPIE, 2013, , .	0.8	3
67	Prompt searches for optical signals from gravitational wave transient candidates with Pi of the Sky. Proceedings of SPIE, 2013, , .	0.8	0
68	PSF modelling for very wide-field CCD astronomy. Astronomy and Astrophysics, 2013, 551, A119.	5.1	20
69	Photometric analysis of the Pi of the Sky data. Proceedings of SPIE, 2012, , .	0.8	0
70	Parallax in Pi of the Sky project. , 2012, , .		1
71	Implementation and testing of the first prompt search for gravitational wave transients with electromagnetic counterparts. Astronomy and Astrophysics, 2012, 539, A124.	5.1	84
72	Present status of Pi of the Sky telescopes. , 2011, , .		2

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73	Pointing model of new Pi of the Sky detector in Spain. Proceedings of SPIE, 2011, , .	0.8	0
74	Observations of Cepheids in Pi of the Sky experiment. Proceedings of SPIE, 2011, , .	0.8	0
75	What is new on the second edition of the variable stars catalogue from the Pi of the Sky data?. , 2011, , .		0
76	Absolute properties of BG Ind - a bright F3 system just leaving the main sequence~.... Monthly Notices of the Royal Astronomical Society, 2011, 414, 2479-2485.	4.4	7
77	Analysis of Cepheids based on photometric data from the Pi of the Sky experiment. Proceedings of SPIE, 2010, , .	0.8	0
78	Pi of the Sky catalogue of the variable stars from 2006-2007 data. , 2010, , .		0
79	Estimation of space debris detection possibility by Pi of the Sky telescopes. , 2010, , .		1
80	â€œPi of the Skyâ€•Detector. Advances in Astronomy, 2010, 2010, 1-9.	1.1	11
81	Automated Detection of Short Optical Transients of Astrophysical Origin in Real Time. Advances in Astronomy, 2010, 2010, 1-11.	1.1	3
82	PiMan: System Manager of the â€œPi of the Skyâ€•Experiment. Advances in Astronomy, 2010, 2010, 1-9.	1.1	0
83	Improving photometry of the Pi of the Sky. Proceedings of SPIE, 2010, , .	0.8	1
84	Prompt optical observations of GRBs with â€œPi of the Skyâ€•system. , 2009, , .		1
85	General overview of the "Pi of the Sky" system. Proceedings of SPIE, 2009, , .	0.8	5
86	Gamma-ray bursts and GRB080319B. , 2009, , .		3
87	Detection of short optical transients of astrophysical origin in real time. Proceedings of SPIE, 2009, , .	0.8	0
88	Possible use of the 'Pi of the Sky' system in a space situational awareness program. , 2009, , .		2
89	The catalog of short periods stars from the â€œPi of the Skyâ€•data. New Astronomy, 2008, 13, 414-417.	1.8	6
90	Broadband observations of the naked-eye $\hat{1}^3$ -ray burst GRBâ€™080319B. Nature, 2008, 455, 183-188.	27.8	449

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91	<title>Providing on-line access to the Pi of the Sky data</title>. Proceedings of SPIE, 2007, , .	0.8	0
92	<title>Full Pi of the Sky system and simulation</title>. Proceedings of SPIE, 2007, , .	0.8	4
93	Search for GRB related prompt optical emission and other fast varying objects with "Pi of the Sky" detector. Astrophysics and Space Science, 2007, 309, 531-535.	1.4	12
94	Search for correlations of GRB and cosmic rays. Astrophysics and Space Science, 2007, 309, 471-475.	1.4	2
95	<title>Period and variability type determination for the stars in the Pi of the Sky data</title>. , 2007, , .		0
96	<title>Web interface for star databases of the Pi of the Sky experiment</title>. , 2007, , .		1
97	<title>Study of rapidly varying astrophysical objects with the Pi-of-the-Sky apparatus</title>. , 2006, , .		2
98	<title>"Pi of the Sky" robotic telescope</title>. , 2006, , .		0
99	<title>Image acquisition in the Pi-of-the-Sky project</title>. , 2006, 6347, 215.		0
100	<title>Limits on GRB early optical emission from Pi-of-the-Sky system</title>. , 2006, , .		2
101	<title>Observing strategy and supporting tools for the "Pi of the Sky" project</title>. , 2006, , .		0
102	<title>Variable stars study in "Pi of the Sky" project</title>. , 2006, , .		1
103	<title>All sky scan analysis algorithm for Pi-of-the-Sky project</title>. , 2006, , .		3
104	<title>Status of the full scale Pi-of-the-Sky project</title>. , 2006, , .		1
105	<title>Data transmission protocol for Pi-of-the-Sky cameras</title>. , 2006, , .		2
106	<title>Algorithms for cosmic flash recognition</title>. , 2006, 6159, 195.		1
107	<title>PiMan: system manager for "Pi of the Sky" experiment</title>. , 2006, , .		1
108	<title>New low noise CCD cameras for Pi-of-the-Sky project</title>. , 2006, 6347, 206.		3

#	ARTICLE	IF	CITATIONS
109	<title>Databases for the Pi-of-the-Sky experiment</title>. , 2006, 6347, 246.		0
110	<title>"Pi of the sky": robotic search for cosmic flashes</title>. , 2006, 6159, 154.		9
111	Pi of the sky: search for optical flashes of extragalactic origin. , 2005, , .		2
112	Pi of the Sky "all-sky, real-time search for fast optical transients. New Astronomy, 2005, 10, 409-416.	1.8	119
113	Search for GRB optical counterparts with "Pi of the Sky" apparatus. AIP Conference Proceedings, 2005, , .	0.4	0
114	?? of the Sky? - automated search for fast optical transients over the whole sky. Astronomische Nachrichten, 2004, 325, 674-674.	1.2	24
115	<title>Search for optical flashes accompanying gamma ray bursts Pi of the Sky collaboration</title>. , 2004, , .		2
116	<title>Simulation of point-like optical flashes in the sky</title>. , 2004, , .		4
117	Apparatus to search for optical flashes of extragalactic origin. , 0, , .		0
118	V473 Lyr, a modulated, period-doubled Cepheid, and UÂTrA, a double-mode Cepheid observed by <i>MOST</i>. Monthly Notices of the Royal Astronomical Society, 0, , stw3345.	4.4	5