Simon J Melhuish

List of Publications by Year
in descending order

44 papers	1,100 citations	516710 16 h-index	395702 33 g-index
44 all docs	44 docs citations	44 times ranked	844 citing authors

#	Article	IF	Citations
1	IMPROVED MEASUREMENTS OF THE TEMPERATURE AND POLARIZATION OF THE COSMIC MICROWAVE BACKGROUND FROM QUaD. Astrophysical Journal, 2009, 705, 978-999.	4.5	225
2	SECOND AND THIRD SEASON QUaD COSMIC MICROWAVE BACKGROUND TEMPERATURE AND POLARIZATION POWER SPECTRA. Astrophysical Journal, 2009, 692, 1247-1270.	4.5	98
3	Parity Violation Constraints Using Cosmic Microwave Background Polarization Spectra from 2006 and 2007 Observations by the QUaD Polarimeter. Physical Review Letters, 2009, 102, 161302.	7.8	96
4	A Broadband WR10 Turnstile Junction Orthomode Transducer. IEEE Microwave and Wireless Components Letters, 2007, 17, 286-288.	3.2	85
5	First Season QUaD CMB Temperature and Polarization Power Spectra. Astrophysical Journal, 2008, 674, 22-28.	4.5	61
6	QUIJOTE scientific results â€“ I. Measurements of the intensity and polarisation of the anomalous microwave emission in the Perseus molecular complex. Monthly Notices of the Royal Astronomical Society, 2015, 452, 4169-4182.	4.4	58
7	QUaD: A HIGH-RESOLUTION COSMIC MICROWAVE BACKGROUND POLARIMETER. Astrophysical Journal, 2009, 692, 1221-1246.	4.5	47
8	The QUIJOTE-CMB experiment: studying the polarisation of the galactic and cosmological microwave emissions. Proceedings of SPIE, 2012, , .	0.8	44
9	Scientific optimization of a ground-based CMB polarization experiment. Monthly Notices of the Royal Astronomical Society, 2004, 349, 321-335.	4.4	40
10	SMALL ANGULAR SCALE MEASUREMENTS OF THE COSMIC MICROWAVE BACKGROUND TEMPERATURE POWER SPECTRUM FROM QUaD. Astrophysical Journal, 2009, 700, L187-L191.	4.5	31
11	Studies of cosmic microwave background structure at Dec. = + 40Â -1. The performance of the Tenerife experiments. Monthly Notices of the Royal Astronomical Society, 1996, 278, 883-896.	4.4	28
12	QUEST on DASI: a South Pole CMB polarization experiment. New Astronomy Reviews, 2003, 47, 1083-1089.	12.8	27
13	Observations of the bright radio sources in the North Celestial Pole region at the RATAN-600 radio telescope. Astronomy and Astrophysics, 2001, 370, 78-86.	5.1	20
14	CHARACTERIZATION OF THE MILLIMETER-WAVE POLARIZATION OF CENTAURUS A WITH QUaD. Astrophysical Journal, 2010, 710, 1541-1550.	4.5	19
15	THE QUaD GALACTIC PLANE SURVEY. II. A COMPACT SOURCE CATALOG. Astrophysical Journal, Supplement Series, 2011, 195, 8.	7.7	18
16	COSMOLOGICAL PARAMETERS FROM THE QUAD CMB POLARIZATION EXPERIMENT. Astrophysical Journal, 2009, 701, 857-864.	4.5	17
17	Cosmic microwave background observations with the Jodrell Bank-IAC interferometer at 33 GHz. Monthly Notices of the Royal Astronomical Society, 1999, 309, 750-760.	4.4	15
18	A measurement at the first acoustic peak of the cosmic microwave background with the 33-GHz interferometer. Monthly Notices of the Royal Astronomical Society, 2000, 316, L24-L28.	4.4	15

#	Article	IF	Citations
19	PARAMETER ESTIMATION FROM IMPROVED MEASUREMENTS OF THE COSMIC MICROWAVE BACKGROUND FROM QUaD. Astrophysical Journal, 2010, 716, 1040-1046.	4.5	15
20	The status of the QUIJOTE multi-frequency instrument. Proceedings of SPIE, 2012, , .	0.8	15
21	QUBIC: Exploring the Primordial Universe with the Q&U Bolometric Interferometer. Universe, 2019, 5, 42.	2.5	15
22	The quasi-optical design of the QUaD telescope. Infrared Physics and Technology, 2008, 51, 277-286.	2.9	13
23	A 33-GHz interferometer for cosmic microwave background observations on Tenerife. Monthly Notices of the Royal Astronomical Society, 1999, 305, 399-408.	4.4	12
24	THE QUaD GALACTIC PLANE SURVEY. I. MAPS AND ANALYSIS OF DIFFUSE EMISSION. Astrophysical Journal, 2010, 722, 1057-1077.	4.5	11
25	A tiltable single-shot miniature dilution refrigerator for astrophysical applications. Cryogenics, 2013, 55-56, 63-67.	1.7	11
26	A Broadband W-Band Polarization Rotator With Very Low Cross Polarization. IEEE Microwave and Wireless Components Letters, 2011, 21, 127-129.	3.2	7
27	Spectral index determination between 408 MHz and 5 GHz in the northern sky. Monthly Notices of the Royal Astronomical Society, 2001, 327, 545-551.	4.4	6
28	A 90-GHz Waveguide Variable Phase Shifter. IEEE Microwave and Wireless Components Letters, 2007, 17, 208-210.	3.2	6
29	The quasi-optical design of the QUaD Telescope. , 2004, , .		5
30	A high-performance wave guide cryogenic thermal break. Review of Scientific Instruments, 2016, 87, 104706.	1.3	5
31	1Â°- and 25-scale interferometric surveys in the northern sky at 5â€ƒGHz. Monthly Notices of the Royal Astronomical Society, 2000, 313, 689-702.	4.4	4
32	The Câ„“OVER experiment. Proceedings of SPIE, 2008, , .	0.8	4
33	Sorption-cooled continuous miniature dilution refrigeration for astrophysical applications. , 2016, , .		4
34	A highly effective superfluid film breaker for high heat-lift 1â€¯K sorption coolers. Cryogenics, 2019, 102, 45-49.	1.7	4
35	CLOVER: The CMB Polarization Observer. EAS Publications Series, 2005, 14, 251-256.	0.3	4
36	A 5-GHz interferometer for microwave background studies. Monthly Notices of the Royal Astronomical Society, 1997, 286, 48-57.	4.4	3

#	Article	IF	Citations
37	Measuring the cosmic microwave background polarization with the QUaD experiment. , 2004, , .		3
38	A low noise Ka-band amplifier for radio astronomy. , 2012, , .		2
39	A sub-Kelvin cryogen-free EPR system. Journal of Magnetic Resonance, 2017, 282, 83-88.	2.1	2
40	Parametric Amplification at Ka Band via Nonlinear Dynamics in Superconducting 3D Cavities. Journal of Low Temperature Physics, 2020, 200, 295-304.	1.4	2
41	A Closed-Cycle Miniature Dilution Refrigerator for a Fast-Cooldown 100 mK Detector Wafer Test Cryostat. Journal of Low Temperature Physics, 2020, 199, 771-779.	1.4	2
42	Millimetre and FIR Broadband Quasi Optical Devices. , 2009, , .		1
43	CLOVER Experiment: the receiver block. EAS Publications Series, 2005, 14, 245-250.	0.3	0
44	Dielectric constant reduction using porous substrates in finline millimetre and submillimetre detectors. Proceedings of SPIE, 2008, , .	0.8	0