

Michele Limon

List of Publications by Year in descending order

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44
papers

7,153
citations

516561

16
h-index

414303

32
g-index

45
all docs

45
docs citations

45
times ranked

10159
citing authors

#	ARTICLE	IF	CITATIONS
1	The Simons Observatory: A large-diameter truss for a refracting telescope cooled to 1 K. Review of Scientific Instruments, 2022, 93, .	0.6	1
2	The Simons Observatory: modeling optical systematics in the Large Aperture Telescope. Applied Optics, 2021, 60, 823.	0.9	13
3	The Simons Observatory: The Large Aperture Telescope (LAT). Research Notes of the AAS, 2021, 5, 100.	0.3	8
4	The Simons Observatory Large Aperture Telescope Receiver. Astrophysical Journal, Supplement Series, 2021, 256, 23.	3.0	11
5	Simons Observatory HoloSim-ML: machine learning applied to the efficient analysis of radio holography measurements of complex optical systems. Applied Optics, 2021, 60, 9029.	0.9	0
6	The Simons Observatory: metamaterial microwave absorber and its cryogenic applications. Applied Optics, 2021, 60, 864.	0.9	13
7	The PMC Turbo Balloon Mission to Measure Gravity Waves and Turbulence in Polar Mesospheric Clouds: Camera, Telemetry, and Software Performance. Earth and Space Science, 2020, 7, e2020EA001238.	1.1	7
8	Mesospheric Bore Evolution and Instability Dynamics Observed in PMC Turbo Imaging and Rayleigh Lidar Profiling Over Northeastern Canada on 13 July 2018. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032037.	1.2	17
9	The Simons Observatory: the Large Aperture Telescope Receiver (LATR) integration and validation results. , 2020, , .		6
10	FIREBall-2: The Faint Intergalactic Medium Redshifted Emission Balloon Telescope. Astrophysical Journal, 2020, 898, 170.	1.6	6
11	PMC Turbo: Studying Gravity Wave and Instability Dynamics in the Summer Mesosphere Using Polar Mesospheric Cloud Imaging and Profiling From a Stratospheric Balloon. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6423-6443.	1.2	27
12	Intensity-coupled Polarization in Instruments with a Continuously Rotating Half-wave Plate. Astrophysical Journal, 2019, 876, 54.	1.6	2
13	The Simons Observatory: science goals and forecasts. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 056-056.	1.9	741
14	Design and performance of dual-polarization lumped-element kinetic inductance detectors for millimeter-wave polarimetry. Astronomy and Astrophysics, 2018, 610, A45.	2.1	20
15	The EBEX Balloon-borne Experimentâ€™Optics, Receiver, and Polarimetry. Astrophysical Journal, Supplement Series, 2018, 239, 7.	3.0	23
16	The EBEX Balloon-borne Experimentâ€™Detectors and Readout. Astrophysical Journal, Supplement Series, 2018, 239, 8.	3.0	13
17	The EBEX Balloon-borne Experimentâ€™Gondola, Attitude Control, and Control Software. Astrophysical Journal, Supplement Series, 2018, 239, 9.	3.0	26
18	Cooldown strategies and transient thermal simulations for the Simons Observatory. , 2018, , .		4

#	ARTICLE	IF	CITATIONS
19	Simons Observatory large aperture receiver simulation overview. , 2018, , .		4
20	Simons Observatory large aperture telescope receiver design overview. , 2018, , .		9
21	Systematic uncertainties in the Simons Observatory: optical effects and sensitivity considerations. , 2018, , .		4
22	The Simons Observatory: instrument overview. , 2018, , .		56
23	Cold optical design for the large aperture Simons' Observatory telescope. , 2018, , .		7
24	The optical design of the six-meter CCAT-prime and Simons Observatory telescopes. , 2018, , .		16
25	A large-diameter hollow-shaft cryogenic motor based on a superconducting magnetic bearing for millimeter-wave polarimetry. Review of Scientific Instruments, 2017, 88, 105102.	0.6	21
26	High-resolution observations and modeling of turbulence sources, structures, and intensities in the upper mesosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2017, 162, 57-78.	0.6	35
27	Temperature calibration of the E and B Experiment. , 2017, , .		2
28	Development of dual-polarization LEKIDs for CMB observations. Proceedings of SPIE, 2016, , .	0.8	3
29	Photon noise from chaotic and coherent millimeter-wave sources measured with horn-coupled, aluminum lumped-element kinetic inductance detectors. Applied Physics Letters, 2016, 108, .	1.5	20
30	A Titanium Nitride Absorber for Controlling Optical Crosstalk in Horn-Coupled Aluminum LEKID Arrays for Millimeter Wavelengths. Journal of Low Temperature Physics, 2016, 184, 154-160.	0.6	3
31	Stratospheric imaging of polar mesospheric clouds: A new window on small-scale atmospheric dynamics. Geophysical Research Letters, 2015, 42, 6058-6065.	1.5	17
32	The performance of the bolometer array and readout system during the 2012/2013 flight of the E and B experiment (EBEX). Proceedings of SPIE, 2014, , .	0.8	9
33	Horn-coupled, commercially-fabricated aluminum lumped-element kinetic inductance detectors for millimeter wavelengths. Review of Scientific Instruments, 2014, 85, 123117.	0.6	32
34	The Detector System for the Stratospheric Kinetic Inductance Polarimeter (Skip). Journal of Low Temperature Physics, 2014, 176, 741-748.	0.6	5
35	STARS: a software application for the EBEX autonomous daytime star cameras. Proceedings of SPIE, 2014, , .	0.8	7
36	NINE-YEAR <i>WILKINSON MICROWAVE ANISOTROPY PROBE</i> (<i>WMAP</i>) OBSERVATIONS: FINAL MAPS AND RESULTS. Astrophysical Journal, Supplement Series, 2013, 208, 20.	3.0	1,810

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37	NINE-YEAR <i>WILKINSON MICROWAVE ANISOTROPY PROBE</i> (<i>WMAP</i>) OBSERVATIONS: COSMOLOGICAL PARAMETER RESULTS. <i>Astrophysical Journal, Supplement Series</i> , 2013, 208, 19.	3.0	3,998
38	THE EBEX CRYOSTAT AND SUPPORTING ELECTRONICS. , 2012, , .		5
39	A cryogenic half-wave plate polarimeter using a superconducting magnetic bearing. <i>Proceedings of SPIE</i> , 2011, , .	0.8	19
40	Software systems for operation, control, and monitoring of the EBEX instrument. <i>Proceedings of SPIE</i> , 2010, , .	0.8	7
41	First implementation of TES bolometer arrays with SQUID-based multiplexed readout on a balloon-borne platform. <i>Proceedings of SPIE</i> , 2010, , .	0.8	5
42	EBEX: a balloon-borne CMB polarization experiment. <i>Proceedings of SPIE</i> , 2010, , .	0.8	68
43	Electromagnetic and Thermal Properties of a Conductively Loaded Epoxy. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2008, 29, 51-61.	0.6	41
44	EBEX: the E and B Experiment. <i>Proceedings of SPIE</i> , 2008, , .	0.8	12