

Neil A Trappe

List of Publications by Year in descending order

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36
papers

292
citations

1307594

7
h-index

888059

17
g-index

37
all docs

37
docs citations

37
times ranked

360
citing authors

#	ARTICLE	IF	CITATIONS
1	PRISM (Polarized Radiation Imaging and Spectroscopy Mission): an extended white paper. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 006-006.	5.4	138
2	The quasi-optical analysis of Bessel beams in the far infrared. Infrared Physics and Technology, 2005, 46, 233-247.	2.9	36
3	The Gaussian beam mode analysis of classical phase aberrations in diffraction-limited optical systems. European Journal of Physics, 2003, 24, 403-412.	0.6	17
4	Gaussian beam mode analysis of partial reflections in simple quasi-optical systems fed by horn antennas. Infrared Physics and Technology, 2003, 44, 289-297.	2.9	16
5	Optical performance of an ultra-sensitive horn-coupled transition-edge-sensor bolometer with hemispherical backshort in the far infrared. Review of Scientific Instruments, 2016, 87, 043103.	1.3	13
6	Modal Analysis of the Quasi-Optical Performance of Phase Gratings. Journal of Infrared, Millimeter and Terahertz Waves, 1999, 20, 1469-1486.	0.6	9
7	Far-Infrared Optics Design & Verification. Journal of Infrared, Millimeter and Terahertz Waves, 2002, 23, 1029-1045.	0.6	8
8	Quasi-optical assessment of the ALMA band 9 front-end. Infrared Physics and Technology, 2009, 52, 174-179.	2.9	8
9	Optical modelling using Gaussian beam modes for the terahertz band. Proceedings of SPIE, 2009, , .	0.8	6
10	Measurements of the optical performance of bolometers for SPICA/SAFARI. Proceedings of SPIE, 2012, , .	0.8	5
11	Gaussian-beam mode analysis of reflection and transmission in multilayer dielectrics. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 80.	1.5	4
12	New developments in waveguide mode-matching techniques for far- infrared astronomy. , 2012, , .		4
13	The optimisation, design and verification of feed horn structures for future Cosmic Microwave Background missions. Infrared Physics and Technology, 2016, 76, 32-37.	2.9	4
14	Developments in quasi-optical design for THz. , 2004, , .		3
15	Efficient design of THz security systems. , 2011, , .		3
16	Measurements of the Optical Performance of Prototype TES Bolometers for SAFARI. Journal of Low Temperature Physics, 2014, 176, 755.	1.4	3
17	Efficient algorithms for optimising the optical performance of profiled smooth walled horns for future CMB and Far-IR missions. Proceedings of SPIE, 2014, , .	0.8	3
18	Analysis of standing waves in submillimeter-wave optics. , 2006, , .		2

#	ARTICLE	IF	CITATIONS
19	Analysis of standing waves in submillimeter-wave optics. , 2007, , .		2
20	Gaussian beam mode analysis of phase gratings. Proceedings of SPIE, 2008, , .	0.8	1
21	Optical modeling for millimeter and submillimeter-wave systems. Proceedings of SPIE, 2008, , .	0.8	1
22	Efficient horn antennas for next-generation terahertz and millimeter-wave space telescopes. , 2013, , .		1
23	Optical characterization of ultra-sensitive TES bolometers for SAFARI. Proceedings of SPIE, 2014, , .	0.8	1
24	Optical characterisation and analysis of multi-mode pixels for use in future far infrared telescopes. , 2016, , .		1
25	Gaussian beam mode analysis of standing waves in submillimeter telescope and receiver systems. , 2004, , .		0
26	Quasi-optical verification of the focal plane optics of the heterodyne instrument for the far-infrared (HIFI). , 2004, 5497, 565.		0
27	Analysis of two ALMA front end receiver channels using physical optics. Proceedings of SPIE, 2008, , .	0.8	0
28	Efficient optical modelling for far-infrared astronomical instrumentation. Proceedings of SPIE, 2010, , .	0.8	0
29	A modal approach to the modeling of rectangular detector horns and cavities at THz frequencies. , 2010, , .		0
30	Refractive telescope systems for future cosmic microwave background polarimetry experiments. , 2014, , .		0
31	Optical modelling of far-infrared astronomical instrumentation exploiting multimode horn antennas. Proceedings of SPIE, 2014, , .	0.8	0
32	MIMO Antenna Design and Channel Modeling 2014. International Journal of Antennas and Propagation, 2015, 2015, 1-1.	1.2	0
33	Determination of the Phase Centers of Millimeter-Wave Horn Antennas Using a Holographic Interference Technique. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 340-355.	2.2	0
34	Analysis of multi-mode waveguide cavities containing free space gaps for use in future far-infrared telescopes. Infrared Physics and Technology, 2020, 105, 103235.	2.9	0
35	Efficient modeling of detectors for far-IR astronomy. SPIE Newsroom, 0, , .	0.1	0
36	Application of non-PEC walled mode-matching techniques to a prototype SAFARI M-band multimode receiver.. , 2020, , .		0