

# Peter G Tuthill

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

449  
citations

932766

10  
h-index

839053

18  
g-index

28  
all docs

28  
docs citations

28  
times ranked

439  
citing authors

#	ARTICLE	IF	CITATIONS
1	A dusty torus around the luminous young star LkH $\alpha$ 101. <i>Nature</i> , 2001, 409, 1012-1014.	13.7	106
2	Images of embedded Jovian planet formation at a wide separation around AB Aurigae. <i>Nature Astronomy</i> , 2022, 6, 751-759.	4.2	63
3	Pinwheels in the Quintuplet Cluster. <i>Science</i> , 2006, 313, 935-935.	6.0	48
4	DISCOVERY OF SEVEN COMPANIONS TO INTERMEDIATE-MASS STARS WITH EXTREME MASS RATIOS IN THE SCORPIUS-CENTAURUS ASSOCIATION. <i>Astrophysical Journal Letters</i> , 2015, 806, L9.	3.0	44
5	First on-sky demonstration of an integrated-photonic nulling interferometer: the GLINT instrument. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 4180-4193.	1.6	34
6	DANCING IN THE DARK: NEW BROWN DWARF BINARIES FROM KERNEL PHASE INTERFEROMETRY. <i>Astrophysical Journal</i> , 2013, 767, 110.	1.6	25
7	A demonstration of wavefront sensing and mirror phasing from the image domain. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 440, 125-133.	1.6	24
8	Scalable photonic-based nulling interferometry with the dispersed multi-baseline GLINT instrument. <i>Nature Communications</i> , 2021, 12, 2465.	5.8	18
9	The Palomar kernel-phase experiment: testing kernel phase interferometry for ground-based astronomical observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 1647-1653.	1.6	13
10	Kernel Phase and Coronagraphy with Automatic Differentiation. <i>Astrophysical Journal</i> , 2021, 907, 40.	1.6	11
11	Resolving Decades of Periodic Spirals from the Wolf-Rayet Dust Factory WR 112. <i>Astrophysical Journal</i> , 2020, 900, 190.	1.6	11
12	High-angular-resolution stellar imaging with occultations from the Cassini spacecraft I. Observational technique. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 433, 2286-2293.	1.6	9
13	High-angular-resolution stellar imaging with occultations from the Cassini spacecraft III. Mira. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 1410-1418.	1.6	8
14	Phase retrieval and design with automatic differentiation: tutorial. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, 2465.	0.9	8
15	The TOLIMAN space telescope. , 2018, , .		7
16	High-contrast H $\alpha$ imaging with Subaru/SCEXAO + VAMPIRES. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2020, 6, .	1.0	6
17	Multiplexed holographic aperture masking with liquid-crystal geometric phase masks. , 2018, , .		5
18	Precision astrometry mission for exoplanet detection around binary stars. , 2018, , .		4

#	ARTICLE	IF	CITATIONS
19	Interferometry of pulsating red giants from 0.65 to 3.5 microns. International Astronomical Union Colloquium, 2004, 193, 327-331.	0.1	2
20	Simulating a dual beam combiner at SUSI for narrow-angle astrometry. Experimental Astronomy, 2013, 36, 195-221.	1.6	2
21	Learning the lantern: neural network applications to broadband photonic lantern modeling. Journal of Astronomical Telescopes, Instruments, and Systems, 2021, 7, .	1.0	1
22	Optical/IR Interferometry: Star Formation at sub-AU Scales. Symposium - International Astronomical Union, 2004, 221, 433-440.	0.1	0
23	Schrödinger's mousetrap. Nature, 2005, 434, 277-277.	13.7	0
24	Prospects for integrated photonics in space applications. , 2011, , .		0
25	Improved performance characteristics for the integrated photonic pupil remapping interferometer dragonfly. , 2013, , .		0
26	The origin of the dusty envelope around Betelgeuse. Proceedings of the International Astronomical Union, 2016, 12, 405-405.	0.0	0
27	Towards an ultrafast laser inscribed astronomical nulling interferometer in the mid-infrared. , 2017, , .		0
28	Measuring stellar diameters with a compact integrated photonic nulling interferometer in a 8 meter-class telescope. , 2017, , .		0