

# Timothy A Cook

## List of Publications by Year in descending order

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44  
papers

474  
citations

840776

11  
h-index

794594

19  
g-index

44  
all docs

44  
docs citations

44  
times ranked

457  
citing authors

#	ARTICLE	IF	CITATIONS
1	Compact multichannel imaging camera for wide-field imaging of diffused sources. <i>Optical Engineering</i> , 2022, 61, .	1.0	0
2	The PICTURE-C exoplanetary imaging balloon mission: first flight preparation. , 2021, , .		2
3	RENU2 UV PMT Observations of the Cusp. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL082314.	4.0	2
4	Imaging of the Daytime Ionospheric Equatorial Arcs With Extreme and Far Ultraviolet Airglow. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 6074-6086.	2.4	6
5	MEMS Deformable Mirrors for Space-Based High-Contrast Imaging. <i>Micromachines</i> , 2019, 10, 366.	2.9	19
6	Multispectral and Multi-€instrument Observation of TIDs Following the Total Solar Eclipse of 21 August 2017. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 3761-3774.	2.4	7
7	The PICTURE-C exoplanetary direct imaging balloon mission: first flight preparation. , 2019, , .		5
8	Decoupling the image-plane and low-order wavefront sensors for the PICTURE-C coronagraph. , 2019, , .		0
9	The low-order wavefront control system for the PICTURE-C mission: deformable mirror anti-aliasing through temporal dithering. , 2019, , .		0
10	Derivation of the Energy and Flux Morphology in an Aurora Observed at Midlatitude Using Multispectral Imaging. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 4257-4271.	2.4	6
11	Wavefront sensing in space: flight demonstration II of the PICTURE sounding rocket payload. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2018, 4, 1.	1.8	12
12	Optical tolerances for the PICTURE-C mission: error budget for electric field conjugation, beam walk, surface scatter, and polarization aberration. , 2017, , .		6
13	The low-order wavefront control system for the PICTURE-C mission: preliminary testbed results from the Shack-Hartmann sensor. , 2017, , .		2
14	The low-order wavefront control system for the PICTURE-C mission: high-speed image acquisition and processing. , 2017, , .		1
15	Radiometric Calibration of a Dual-Wavelength, Full-Waveform Terrestrial Lidar. <i>Sensors</i> , 2016, 16, 313.	3.8	15
16	Inverting OII 83.4Ånm dayglow profiles using Markov chain radiative transfer. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 11,249.	2.4	3
17	Planet Imaging Coronagraphic Technology Using a Reconfigurable Experimental Base (PICTURE-B): The Second in the Series of Suborbital Exoplanet Experiments. <i>Journal of Astronomical Instrumentation</i> , 2016, 05, 1640004.	1.5	31
18	Wavefront sensing in space from the PICTURE-B sounding rocket. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1

#	ARTICLE	IF	CITATIONS
19	Planetary Imaging Concept Testbed Using a Recoverable Experimentâ€“Coronagraph (PICTURE C). Journal of Astronomical Telescopes, Instruments, and Systems, 2015, 1, 044001.	1.8	25
20	The low-order wavefront sensor for the PICTURE-C mission. Proceedings of SPIE, 2015, , .	0.8	5
21	Capabilities and performance of dual-wavelength Echidna<sup>Â®</sup>lidar. Journal of Applied Remote Sensing, 2015, 9, 095979.	1.3	12
22	Finding Leaves in the Forest: The Dual-Wavelength Echidna Lidar. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 776-780.	3.1	58
23	End-to-end simulation of high-contrast imaging systems: methods and results for the PICTURE mission family. , 2015, , .		3
24	Interferometric nulling limits with tip-tilt-piston deformable mirrors and a pinhole spatial filter array. Journal of Astronomical Telescopes, Instruments, and Systems, 2014, 1, 019001.	1.8	0
25	Ionospheric imaging using merged ultraviolet airglow and radio occultation data. Proceedings of SPIE, 2014, , .	0.8	4
26	Anamorphic integral field spectrometer for diffuse ultraviolet astronomy. Applied Optics, 2013, 52, 8765.	1.8	1
27	Studying canopy structure through 3-D reconstruction of point clouds from full-waveform terrestrial lidar. , 2013, , .		1
28	Separating leaves from trunks and branches with dual-wavelength terrestrial lidar scanning. , 2013, , .		10
29	Flight demonstration of a millisecond pointing system for direct exoplanet imaging. Applied Optics, 2012, 51, 7069.	1.8	44
30	PICTURE: a sounding rocket experiment for direct imaging of an extrasolar planetary environment. , 2012, , .		15
31	FAR-ULTRAVIOLET DUST ALBEDO MEASUREMENTS IN THE UPPER SCORPIUS CLOUD USING THE SPINR SOUNDING ROCKET EXPERIMENT. Astrophysical Journal, 2009, 706, 306-318.	4.5	8
32	Far-ultraviolet astronomical narrowband imaging. Applied Optics, 2009, 48, 1936.	2.1	2
33	Monolithic achromatic nulling interference coronagraph: design and performance. Applied Optics, 2009, 48, 4963.	2.1	10
34	Path length control in a nulling coronagraph with a MEMS deformable mirror and a calibration interferometer. , 2008, , .		15
35	A Study of Farâ€“Ultraviolet Extinction in the Upper Scorpius Cloud Using the SPINR Sounding Rocket Experiment. Astrophysical Journal, 2005, 619, 357-367.	4.5	8
36	Spectroscopy and photometry of IGM's diffuse radiation (SPIDR): a NASA small explorer mission. , 2003, 4854, 356.		3

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37	SPINRâ€™A Wideâ€™Field Ultraviolet Spectral Imaging System. Astrophysical Journal, 2003, 585, 1177-1190.	4.5	8
38	Tomographic extreme-ultraviolet spectrographs: TESS. Applied Optics, 2000, 39, 3991.	2.1	8
39	A statistical framework for space-based EUV ionospheric tomography. Radio Science, 1999, 34, 437-447.	1.6	37
40	Two-dimensional mapping of the plasma density in the upper atmosphere with computerized ionospheric tomography (CIT). Physics of Plasmas, 1998, 5, 2010-2021.	1.9	54
41	Improved radio tomography of the ionosphere using EUV/optical measurements from satellites. Radio Science, 1997, 32, 1965-1972.	1.6	7
42	Spectrograph for photometric imaging with numeric reconstruction (SPINR) simulations. , 1995, , .		1
43	Ultraviolet imaging spectroscopy of dust in the interstellar medium. , 1995, , .		3
44	Single-element imaging spectrograph. Applied Optics, 1994, 33, 1958.	2.1	14