Timothy A Cook

List of Publications by Year
in descending order

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	Finding Leaves in the Forest: The Dual-Wavelength Echidna Lidar. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 776-780.	3.1	58
2	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
3	Flight demonstration of a milliarcsecond pointing system for direct exoplanet imaging. Applied Optics, 2012, 51, 7069.	1.8	44
4	A statistical framework for space-based EUV ionospheric tomography. Radio Science, 1999, 34, 437-447.	1.6	37
5	Planet Imaging Coronagraphic Technology Using a Reconfigurable Experimental Base (PICTURE-B): The Second in the Series of Suborbital Exoplanet Experiments. Journal of Astronomical Instrumentation, 2016, 05, 1640004.	1.5	31
6	Planetary Imaging Concept Testbed Using a Recoverable Experimentâ€“Coronagraph (PICTURE C). Journal of Astronomical Telescopes, Instruments, and Systems, 2015, 1, 044001.	1.8	25
7	MEMS Deformable Mirrors for Space-Based High-Contrast Imaging. Micromachines, 2019, 10, 366.	2.9	19
8	Path length control in a nulling coronagraph with a MEMS deformable mirror and a calibration interferometer. , 2008, , .		15
9	PICTURE: a sounding rocket experiment for direct imaging of an extrasolar planetary environment. , 2012, , .		15
10	Radiometric Calibration of a Dual-Wavelength, Full-Waveform Terrestrial Lidar. Sensors, 2016, 16, 313.	3.8	15
11	Single-element imaging spectrograph. Applied Optics, 1994, 33, 1958.	2.1	14
12	Capabilities and performance of dual-wavelength Echidna^{Â®}lidar. Journal of Applied Remote Sensing, 2015, 9, 095979.	1.3	12
13	Wavefront sensing in space: flight demonstration II of the PICTURE sounding rocket payload. Journal of Astronomical Telescopes, Instruments, and Systems, 2018, 4, 1.	1.8	12
14	Monolithic achromatic nulling interference coronagraph: design and performance. Applied Optics, 2009, 48, 4963.	2.1	10
15	Separating leaves from trunks and branches with dual-wavelength terrestrial lidar scanning. , 2013, , .		10
16	Tomographic extreme-ultraviolet spectrographs: TESS. Applied Optics, 2000, 39, 3991.	2.1	8
17	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
18	SPINRâ€”A Wideâ€Field Ultraviolet Spectral Imaging System. Astrophysical Journal, 2003, 585, 1177-1190.	4.5	8

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19	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
20	Improved radio tomography of the ionosphere using EUV/optical measurements from satellites. Radio Science, 1997, 32, 1965-1972.	1.6	7
21	Multispectral and Multiâ€instrument Observation of TIDs Following the Total Solar Eclipse of 21 August 2017. Journal of Geophysical Research: Space Physics, 2019, 124, 3761-3774.	2.4	7
22	Derivation of the Energy and Flux Morphology in an Aurora Observed at Midlatitude Using Multispectral Imaging. Journal of Geophysical Research: Space Physics, 2018, 123, 4257-4271.	2.4	6
23	Imaging of the Daytime Ionospheric Equatorial Arcs With Extreme and Far Ultraviolet Airglow. Journal of Geophysical Research: Space Physics, 2019, 124, 6074-6086.	2.4	6
24	Optical tolerances for the PICTURE-C mission: error budget for electric field conjugation, beam walk, surface scatter, and polarization aberration. , 2017, , .		6
25	The low-order wavefront sensor for the PICTURE-C mission. Proceedings of SPIE, 2015, , .	0.8	5
26	The PICTURE-C exoplanetary direct imaging balloon mission: first flight preparation. , 2019, , .		5
27	Ionospheric imaging using merged ultraviolet airglow and radio occultation data. Proceedings of SPIE, 2014, , .	0.8	4
28	Spectroscopy and photometry of IGM's diffuse radiation (SPIDR): a NASA small explorer mission. , 2003, 4854, 356.		3
29	End-to-end simulation of high-contrast imaging systems: methods and results for the PICTURE mission family. , 2015, , .		3
30	Inverting OII 83.4Ânm dayglow profiles using Markov chain radiative transfer. Journal of Geophysical Research: Space Physics, 2016, 121, 11,249.	2.4	3
31	Ultraviolet imaging spectroscopy of dust in the interstellar medium. , 1995, , .		3
32	Far-ultraviolet astronomical narrowband imaging. Applied Optics, 2009, 48, 1936.	2.1	2
33	RENU2 UV PMT Observations of the Cusp. Geophysical Research Letters, 2020, 47, e2019GL082314.	4.0	2
34	The PICTURE-C exoplanetary imaging balloon mission: first flight preparation. , 2021, , .		2
35	The low-order wavefront control system for the PICTURE-C mission: preliminary testbed results from the Shack-Hartmann sensor. , 2017, , .		2
36	Spectrograph for photometric imaging with numeric reconstruction (SPINR) simulations. , 1995, , .		1

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37	Anamorphic integral field spectrometer for diffuse ultraviolet astronomy. Applied Optics, 2013, 52, 8765.	1.8	1
38	Studying canopy structure through 3-D reconstruction of point clouds from full-waveform terrestrial lidar. , 2013, , .		1
39	Wavefront sensing in space from the PICTURE-B sounding rocket. Proceedings of SPIE, 2016, , .	0.8	1
40	The low-order wavefront control system for the PICTURE-C mission: high-speed image acquisition and processing. , 2017, , .		1
41	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
42	Decoupling the image-plane and low-order wavefront sensors for the PICTURE-C coronagraph. , 2019, , .		0
43	The low-order wavefront control system for the PICTURE-C mission: deformable mirror anti-aliasing through temporal dithering. , 2019, , .		0
44	Compact multichannel imaging camera for wide-field imaging of diffused sources. Optical Engineering, 2022, 61, .	1.0	0