

# Thomas P Greene

## List of Publications by Year in descending order

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103  
papers

5,414  
citations

87888

38  
h-index

88630

70  
g-index

104  
all docs

104  
docs citations

104  
times ranked

3621  
citing authors

#	ARTICLE	IF	CITATIONS
1	Densified Pupil Spectrograph as High-precision Radial Velocimetry: From Direct Measurement of the Universe's Expansion History to Characterization of Nearby Habitable Planet Candidates. <i>Astronomical Journal</i> , 2022, 163, 63.	4.7	2
2	JWST Noise Floor. II. Systematic Error Sources in JWST NIRC <i>am</i> Time Series. <i>Astronomical Journal</i> , 2021, 161, 115.	4.7	27
3	Transmission Spectroscopy for the Warm Sub-Neptune HD 3167c: Evidence for Molecular Absorption and a Possible High-metallicity Atmosphere. <i>Astronomical Journal</i> , 2021, 161, 18.	4.7	25
4	The Near-stellar Environment of Class 0 Protostars: A First Look with Near-infrared Spectroscopy. <i>Astrophysical Journal</i> , 2021, 921, 110.	4.5	6
5	Detecting Biosignatures in the Atmospheres of Gas Dwarf Planets with the James Webb Space Telescope. <i>Astrophysical Journal</i> , 2021, 923, 144.	4.5	11
6	JWST Noise Floor. I. Random Error Sources in JWST NIRC <i>am</i> Time Series. <i>Astronomical Journal</i> , 2020, 160, 231.	4.7	48
7	Photometric Precision of a Si:As Impurity Band Conduction Mid-infrared Detector and Application to Transit Spectroscopy. <i>Publications of the Astronomical Society of the Pacific</i> , 2019, 131, 124502.	3.1	12
8	A Radial Velocity Survey of Embedded Sources in the Rho Ophiuchi Cluster. <i>Astronomical Journal</i> , 2019, 158, 41.	4.7	7
9	Revisiting the HIP 41378 System with K2 and Spitzer. <i>Astronomical Journal</i> , 2019, 157, 185.	4.7	18
10	Water Vapor and Clouds on the Habitable-zone Sub-Neptune Exoplanet K2-18b. <i>Astrophysical Journal Letters</i> , 2019, 887, L14.	8.3	183
11	Detection of Photospheric Features in the Near-infrared Spectrum of a Class 0 Protostar. <i>Astrophysical Journal</i> , 2018, 862, 85.	4.5	10
12	Clear and Cloudy Exoplanet Forecasts for JWST: Maps, Retrieved Composition, and Constraints on Formation with MIRI and NIRC <i>am</i> . <i>Astronomical Journal</i> , 2018, 156, 40.	4.7	28
13	Observing Exoplanets with the James Webb Space Telescope. , 2018, , 1283-1308.		1
14	The Transiting Exoplanet Community Early Release Science Program for JWST. <i>Publications of the Astronomical Society of the Pacific</i> , 2018, 130, 114402.	3.1	100
15	A highly stable spectrophotometric capability for the Origins Space Telescope (OST) mid-infrared imager, spectrometer, coronagraph (MISC). , 2018, , .		5
16	Time series observations with the mid-infrared instrument (MIRI) on JWST. , 2018, , .		4
17	Testing of a germanium immersion grating. , 2018, , .		0
18	PandExo: A Community Tool for Transiting Exoplanet Science with JWST & HST. <i>Publications of the Astronomical Society of the Pacific</i> , 2017, 129, 064501.	3.1	230

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19	The Implications of 3D Thermal Structure on 1D Atmospheric Retrieval. <i>Astrophysical Journal</i> , 2017, 848, 127.	4.5	74
20	Three <sup>TM</sup> s Company: An Additional Non-transiting Super-Earth in the Bright HD 3167 System, and Masses for All Three Planets. <i>Astronomical Journal</i> , 2017, 154, 122.	4.7	90
21	K2-66b and K2-106b: Two Extremely Hot Sub-Neptune-size Planets with High Densities. <i>Astronomical Journal</i> , 2017, 153, 271.	4.7	60
22	1.4 to 5 m spectroscopy with the James Webb Space Telescope NIRC <i>am</i> instrument. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2017, 3, 035001.	1.8	31
23	Science yield estimate with the Wide-Field Infrared Survey Telescope coronagraph. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2016, 2, 011020.	1.8	19
24	Slitless spectroscopy with the James Webb Space Telescope Near-Infrared Camera (JWST NIRC <i>am</i> ). <i>Proceedings of SPIE</i> , 2016, , .	0.8	9
25	Transiting Exoplanet Studies and Community Targets for JWST's Early Release Science Program. <i>Publications of the Astronomical Society of the Pacific</i> , 2016, 128, 094401.	3.1	98
26	CHARACTERIZING TRANSITING EXOPLANET ATMOSPHERES WITH JWST. <i>Astrophysical Journal</i> , 2016, 817, 17.	4.5	356
27	SPITZER OBSERVATIONS OF EXOPLANETS DISCOVERED WITH THE KEPLER K2 MISSION. <i>Astrophysical Journal</i> , 2016, 822, 39.	4.5	48
28	The Mid-Infrared Instrument for the James Webb Space Telescope, VII: The MIRI Detectors. <i>Publications of the Astronomical Society of the Pacific</i> , 2015, 127, 665-674.	3.1	60
29	The Mid-Infrared Instrument for the James Webb Space Telescope, X: Operations and Data Reduction. <i>Publications of the Astronomical Society of the Pacific</i> , 2015, 127, 696-711.	3.1	15
30	The Mid-Infrared Instrument for the James Webb Space Telescope, I: Introduction. <i>Publications of the Astronomical Society of the Pacific</i> , 2015, 127, 584-594.	3.1	244
31	Characterizing Transiting Planet Atmospheres through 2025. <i>Publications of the Astronomical Society of the Pacific</i> , 2015, 127, 311-327.	3.1	121
32	The Mid-Infrared Instrument for the James Webb Space Telescope, II: Design and Build. <i>Publications of the Astronomical Society of the Pacific</i> , 2015, 127, 595-611.	3.1	113
33	NEAR-IR SPECTROSCOPIC MONITORING OF CLASS I PROTOSTARS: VARIABILITY OF ACCRETION AND WIND INDICATORS. <i>Astronomical Journal</i> , 2014, 147, 125.	4.7	18
34	EXCEDE technology development III: first vacuum tests. , 2014, , .		4
35	A FRAMEWORK FOR CHARACTERIZING THE ATMOSPHERES OF LOW-MASS LOW-DENSITY TRANSITING PLANETS. <i>Astrophysical Journal</i> , 2013, 775, 80.	4.5	208
36	Improving image contrast for the direct detection of exoplanets at small inner working angles. , 2013, , .		0

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37	EXCEDE technology development II: demonstration of high contrast at $1.2 \lambda/D$ and preliminary broadband results. , 2013, , .		2
38	EXCEDE technology development I: first demonstrations of high contrast at $1.2 \lambda/D$ for an Explorer space telescope mission. Proceedings of SPIE, 2012, , .	0.8	5
39	SPIN EVOLUTION OF ACCRETING YOUNG STARS. II. EFFECT OF ACCRETION-POWERED STELLAR WINDS. Astrophysical Journal, 2012, 745, 101.	4.5	65
40	Science opportunities with the near-IR camera (NIRCam) on the James Webb Space Telescope (JWST). Proceedings of SPIE, 2012, , .	0.8	38
41	MAGNETIC BRAKING FORMULATION FOR SUN-LIKE STARS: DEPENDENCE ON DIPOLE FIELD STRENGTH AND ROTATION RATE. Astrophysical Journal Letters, 2012, 754, L26.	8.3	175
42	DUST GRAIN EVOLUTION IN SPATIALLY RESOLVED T TAURI BINARIES. Astrophysical Journal, 2011, 740, 43.	4.5	10
43	Laboratory demonstration of high-contrast imaging at inner working angles $2 \lambda/D$ and better. , 2011, , .		8
44	TRANSMISSION SPECTRA OF TRANSITING PLANET ATMOSPHERES: MODEL VALIDATION AND SIMULATIONS OF THE HOT NEPTUNE GJ 436b FOR THE JAMES WEBB SPACE TELESCOPE. Astrophysical Journal, 2011, 727, 65.	4.5	78
45	ICES IN THE QUIESCENT IC 5146 DENSE CLOUD. Astrophysical Journal, 2011, 731, 9.	4.5	52
46	Narrow ion-beam figuring: a figuring tool that enables new optical systems solutions. Proceedings of SPIE, 2011, , .	0.8	1
47	NEAR-IR $H_{2}$ EMISSION OF PROTOSTARS: PROBING CIRCUMSTELLAR ENVIRONMENTS. Astrophysical Journal, 2010, 725, 1100-1110.	4.5	15
48	Narrow ion-beam figuring: a new tool to address extreme slopes on small surfaces located near telescope pupils. Proceedings of SPIE, 2010, , .	0.8	3
49	ISM DUST GRAINS AND N-BAND SPECTRAL VARIABILITY IN THE SPATIALLY RESOLVED SUBARCSECOND BINARY UY Aur,,. Astrophysical Journal, 2010, 711, 1280-1290.	4.5	13
50	Quick-look reduction software for FORCAST grism mode on SOFIA. , 2010, , .		0
51	SPIN EVOLUTION OF ACCRETING YOUNG STARS. I. EFFECT OF MAGNETIC STAR-DISK COUPLING. Astrophysical Journal, 2010, 714, 989-1000.	4.5	61
52	A NEAR-INFRARED SPECTROSCOPIC SURVEY OF CLASS I PROTOSTARS. Astronomical Journal, 2010, 140, 1214-1240.	4.7	115
53	NIRCam: development and testing of the JWST near-infrared camera. , 2010, , .		11
54	Laboratory demonstration of high-contrast imaging at $2 \lambda/D$ on a temperature-stabilized testbed in air. , 2010, , .		7

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55	FIRST MAGNETIC FIELD DETECTION ON A CLASS I PROTOSTAR. <i>Astrophysical Journal</i> , 2009, 700, 1440-1448.	4.5	32
56	A Direct Measurement of Atmospheric Dispersion in <i>N</i> -band Spectra: Implications for Mid-IR Systems on ELTs. <i>Publications of the Astronomical Society of the Pacific</i> , 2009, 121, 897-904.	3.1	11
57	Discovery and Characterization of Transiting Super Earths Using an All-Sky Transit Survey and Follow-up by the <i>James Webb Space Telescope</i> . <i>Publications of the Astronomical Society of the Pacific</i> , 2009, 121, 952-967.	3.1	210
58	V1647 ORIONIS: KECK/NIRSPEC 2.1m ECHELLE OBSERVATIONS. <i>Astronomical Journal</i> , 2009, 137, 2968-2980.	4.7	10
59	A silicon and KRS-5 grism suite for FORCAST on SOFIA. , 2008, , .		12
60	Pupil mapping Exoplanet Coronagraphic Observer (PECO). <i>Proceedings of SPIE</i> , 2008, , .	0.8	6
61	HIGH-RESOLUTION NEAR-INFRARED SPECTROSCOPY OF FLUORS AND FLUOR-LIKE STARS. <i>Astronomical Journal</i> , 2008, 135, 1421-1429.	4.7	39
62	Observing exoplanets with the JWST NIRCcam grisms. <i>Proceedings of SPIE</i> , 2007, , .	0.8	12
63	The Relationship between the Optical Depth of the 9.7 $\mu$ m Silicate Absorption Feature and Infrared Differential Extinction in Dense Clouds. <i>Astrophysical Journal</i> , 2007, 666, L73-L76.	4.5	64
64	High Spectral Resolution Near-IR Observations of ESO-H $\alpha$ 279A and 279B. <i>Astronomical Journal</i> , 2007, 133, 568-575.	4.7	3
65	Hubble Space Telescope NICMOS Observations of NGC 1333: The Ratio of Stars to Substellar Objects. <i>Astronomical Journal</i> , 2007, 133, 1321-1330.	4.7	22
66	TOPS: a small space telescope using phase induced-amplitude apodization (PIAA) to image rocky and giant exo-planets. <i>Proceedings of SPIE</i> , 2007, , .	0.8	0
67	The Radial Velocity Distribution of Class I and Flat-Spectrum Protostars. <i>Astronomical Journal</i> , 2006, 131, 512-519.	4.7	30
68	Telescope to Observe Planetary Systems (TOPS): a high throughput 1.2-m visible telescope with a small inner working angle. , 2006, , .		3
69	Mid-Infrared Observations of Class I/Flat-Spectrum Systems in Six Nearby Molecular Clouds. <i>Astronomical Journal</i> , 2006, 132, 2675-2684.	4.7	18
70	The Physical Natures of Class I and Flat-Spectrum Protostellar Photospheres: A Near-Infrared Spectroscopic Study. <i>Astronomical Journal</i> , 2005, 130, 1145-1170.	4.7	104
71	Optical Spectroscopy of the Surface Population of the $\rho$ -Ophiuchi Molecular Cloud: The First Wave of Star Formation. <i>Astronomical Journal</i> , 2005, 130, 1733-1751.	4.7	147
72	The Angular Momentum Content and Evolution of Class I and Flat-Spectrum Protostars. <i>Astronomical Journal</i> , 2005, 129, 2765-2776.	4.7	28

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73	A Near-Infrared Multiplicity Survey of Class I/Flat-Spectrum Systems in Six Nearby Molecular Clouds. <i>Astronomical Journal</i> , 2004, 127, 1747-1754.	4.7	56
74	Low-Mass Stars and Substellar Objects in the NGC 1333 Molecular Cloud. <i>Astronomical Journal</i> , 2004, 127, 1131-1146.	4.7	64
75	High Spectral Resolution H <sub>2</sub> Measurements of Herbig-Haro Objects 38, 46/47, and 120. <i>Astronomical Journal</i> , 2003, 126, 339-347.	4.7	12
76	NGST NIRCcam Scientific Program and Design Concept. , 2003, , .		16
77	The AstroBiology Explorer (ABE) MIDEX Mission Concept: Identifying Organic Molecules in Space. , 2003, , .		3
78	Spectroscopy of Brown Dwarf Candidates in the NGC 1333 Molecular Cloud. <i>Symposium - International Astronomical Union</i> , 2003, 211, 97-102.	0.1	1
79	Astrophysics of Young Star Binaries. <i>Astrophysical Journal</i> , 2003, 584, 853-874.	4.5	133
80	An Infrared Multiplicity Survey of Class I/Flat-Spectrum Systems in the $\rho$ -Ophiuchi and Serpens Molecular Clouds. <i>Astronomical Journal</i> , 2002, 124, 2841-2852.	4.7	40
81	A Tidally Interacting Disk in the Young Triple System WL 20?. <i>Astrophysical Journal</i> , 2002, 572, L75-L78.	4.5	7
82	Spectroscopic Detection of a Stellar-like Photosphere in an Accreting Protostar. <i>Astronomical Journal</i> , 2002, 124, 2185-2193.	4.7	41
83	Infrared Properties of Weak Radio Sources in the $\rho$ -Ophiuchi Molecular Cloud. <i>Astrophysical Journal</i> , 2001, 551, 357-366.	4.5	50
84	High-Resolution Near-Infrared Spectra of Protostars. <i>Astronomical Journal</i> , 2000, 120, 430-436.	4.7	22
85	<title>Explorer-class astrobiology mission</title>. , 2000, , .		1
86	<title>Detector requirements for NGST</title>. , 2000, , .		1
87	Spectroscopy of Brown Dwarf Candidates in the $\rho$ -Ophiuchi Molecular Core. <i>Astronomical Journal</i> , 1999, 117, 469-482.	4.7	139
88	Kinematics of the HH 43 Flow: Evidence for a Precessing Jet?. <i>Astronomical Journal</i> , 1999, 117, 456-461.	4.7	14
89	Lunar Occultations of Young Stars in Southern Taurus. <i>Astronomical Journal</i> , 1999, 117, 1594-1597.	4.7	10
90	Pointing calibration and reference sensor for the Space Infrared Telescope Facility. , 1998, , .		6

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91	IRAS 20050+2720: An Embedded Young Cluster Associated with a Multipolar Outflow. <i>Astrophysical Journal</i> , 1997, 475, 163-172.	4.5	25
92	Near-Infrared Spectra of Flat-Spectrum Protostars: Extremely Young Photospheres Revealed. <i>Astronomical Journal</i> , 1997, 114, 2157.	4.7	44
93	Near-Infrared Spectra and the Evolutionary Status of Young Stellar Objects: Results of a 1.1-2.4 (??) Survey. <i>Astronomical Journal</i> , 1996, 112, 2184.	4.7	143
94	The Unusually Rich Infrared Emission-Line Spectrum of a Deeply Embedded Low-Luminosity Young Stellar Object. <i>Astrophysical Journal</i> , 1996, 461, 345.	4.5	18
95	An Infrared Spectroscopic Survey of the rho Ophiuchi Young Stellar Cluster: Masses and Ages from the H-R Diagram. <i>Astrophysical Journal</i> , 1995, 450, 233.	4.5	120
96	Further mid-infrared study of the rho Ophiuchi cloud young stellar population: Luminosities and masses of pre-main-sequence stars. <i>Astrophysical Journal</i> , 1994, 434, 614.	4.5	368
97	CSHELL: a high spectral resolution 1-5-1/4m cryogenic echelle spectrograph for the IRTF. , 1993, , .		151
98	Infrared images of the young cluster NGC 2264. <i>Astrophysical Journal</i> , 1993, 408, 471.	4.5	70
99	Near-infrared observations of young stellar objects in the Rho Ophiuchi dark cloud. <i>Astrophysical Journal</i> , 1992, 395, 516.	4.5	99
100	IRAS observations of young stellar objects in the Corona Australis dark cloud. <i>Astrophysical Journal</i> , 1992, 397, 520.	4.5	43
101	A spectacular molecular outflow in the Monoceros OB1 molecular cloud. <i>Astrophysical Journal</i> , 1990, 352, 615.	4.5	14
102	IRAS observations of dust heating and energy balance in the Rho Ophiuchi dark cloud. <i>Astrophysical Journal</i> , 1989, 339, 258.	4.5	8
103	High-Resolution Near-IR Spectroscopy of Protostars with Large Telescopes. , 0, , 283-290.		0