

# James R Graham

## List of Publications by Year in descending order

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103  
papers

8,592  
citations

47006

47  
h-index

51608

86  
g-index

104  
all docs

104  
docs citations

104  
times ranked

4800  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical Images of an Exosolar Planet 25 Light-Years from Earth. <i>Science</i> , 2008, 322, 1345-1348.	12.6	701
2	Design and development of NIRSPEC: a near-infrared echelle spectrograph for the Keck II telescope. , 1998, , .		527
3	First light of the Gemini Planet Imager. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 12661-12666.	7.1	472
4	A planetary system as the origin of structure in Fomalhaut's dust belt. <i>Nature</i> , 2005, 435, 1067-1070.	27.8	327
5	Two ten-billion-solar-mass black holes at the centres of giant elliptical galaxies. <i>Nature</i> , 2011, 480, 215-218.	27.8	305
6	The Gemini Planet Imager Exoplanet Survey: Giant Planet and Brown Dwarf Demographics from 10 to 100 au. <i>Astronomical Journal</i> , 2019, 158, 13.	4.7	270
7	Massive Stars in the Arches Cluster. <i>Astrophysical Journal</i> , 2002, 581, 258-275.	4.5	261
8	The Gemini Deep Planet Survey. <i>Astrophysical Journal</i> , 2007, 670, 1367-1390.	4.5	247
9	Lithium in Brown Dwarf Candidates: The Mass and Age of the Faintest Pleiades Stars. <i>Astrophysical Journal</i> , 1996, 458, 600.	4.5	197
10	The Planet around 51 Pegasi. <i>Astrophysical Journal</i> , 1997, 481, 926-935.	4.5	175
11	The Host Galaxy of GRB 031203: Implications of Its Low Metallicity, Low Redshift, and Starburst Nature. <i>Astrophysical Journal</i> , 2004, 611, 200-207.	4.5	156
12	Observations of $z=1.44$ Dusty, Ultraluminous Galaxy and Implications for Deep Submillimeter Surveys. <i>Astrophysical Journal</i> , 1999, 519, 610-621.	4.5	151
13	The Structure of High Strehl Ratio Pointâ€‘spread Functions. <i>Astrophysical Journal</i> , 2003, 596, 702-712.	4.5	139
14	POLARIMETRY WITH THE GEMINI PLANET IMAGER: METHODS, PERFORMANCE AT FIRST LIGHT, AND THE CIRCUMSTELLAR RING AROUND HR 4796A. <i>Astrophysical Journal</i> , 2015, 799, 182.	4.5	139
15	A Galaxy at $[Z] = 5.34$ . <i>Astrophysical Journal</i> , 1998, 498, L93-L97.	4.5	135
16	Kinematic Masses of Superâ€‘Star Clusters in M82 from Highâ€‘Resolution Nearâ€‘Infrared Spectroscopy. <i>Astrophysical Journal</i> , 2003, 596, 240-252.	4.5	135
17	Chandra Detection of a Type II Quasar at $z=3.288$ . <i>Astrophysical Journal</i> , 2002, 568, 71-81.	4.5	126
18	STIS CORONAGRAPHIC IMAGING OF FOMALHAUT: MAIN BELT STRUCTURE AND THE ORBIT OF FOMALHAUT. <i>Astrophysical Journal</i> , 2013, 775, 56.	4.5	124

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19	Performance and results with the NIRSPEC echelle spectrograph on the Keck II telescope. , 2000, 4008, 1048.		122
20	The Signature of Primordial Grain Growth in the Polarized Light of the AU Microscopii Debris Disk. Astrophysical Journal, 2007, 654, 595-605.	4.5	117
21	Characterizing 51 Eri b from 1 to 5 $\hat{A}$ ¼m: A Partly Cloudy Exoplanet. Astronomical Journal, 2017, 154, 10.	4.7	110
22	DYNAMICAL MEASUREMENTS OF BLACK HOLE MASSES IN FOUR BRIGHTEST CLUSTER GALAXIES AT 100 Mpc. Astrophysical Journal, 2012, 756, 179.	4.5	109
23	<i>i&gt;Î²&lt;/i&gt; PICTORISâ€™ INNER DISK IN POLARIZED LIGHT AND NEW ORBITAL PARAMETERS FOR <i>i&gt;Î²&lt;/i&gt; PICTORIS <i>b&lt;/i&gt;</i>. Astrophysical Journal, 2015, 811, 18.</i></i>	4.5	108
24	Morphological Evolution in High-Redshift Radio Galaxies and the Formation of Giant Elliptical Galaxies. Astrophysical Journal, 1998, 502, 614-629.	4.5	103
25	Complex Spiral Structure in the HD 100546 Transitional Disk as Revealed by GPI and MagAO. Astronomical Journal, 2017, 153, 264.	4.7	99
26	Orbits for the Impatient: A Bayesian Rejection-sampling Method for Quickly Fitting the Orbits of Long-period Exoplanets. Astronomical Journal, 2017, 153, 229.	4.7	98
27	SPECKLE SUPPRESSION THROUGH DUAL IMAGING POLARIMETRY, AND A GROUND-BASED IMAGE OF THE HR 4796A CIRCUMSTELLAR DISK. Astrophysical Journal, 2009, 701, 804-810.	4.5	97
28	Super Star Cluster Velocity Dispersions and Virial Masses in the M82 Nuclear Starburst. Astrophysical Journal, 2007, 663, 844-856.	4.5	96
29	Improving and Assessing Planet Sensitivity of the GPI Exoplanet Survey with a Forward Model Matched Filter. Astrophysical Journal, 2017, 842, 14.	4.5	96
30	THE ORBIT AND TRANSIT PROSPECTS FOR <i>Î²²</i> PICTORIS b CONSTRAINED WITH ONE MILLIARCSECOND ASTROMETRY. Astronomical Journal, 2016, 152, 97.	4.7	95
31	Dynamical Constraints on the HR 8799 Planets with GPI. Astronomical Journal, 2018, 156, 192.	4.7	95
32	1â€“2.4 $\hat{A}$ ¼m Near-IR Spectrum of the Giant Planet <i>Î²²</i> Pictoris b Obtained with the Gemini Planet Imager. Astronomical Journal, 2017, 153, 182.	4.7	92
33	The Redshift of an Extremely Red Object and the Nature of the Very Red Galaxy Population. Astrophysical Journal, 1996, 471, 720-725.	4.5	90
34	A Complete ALMA Map of the Fomalhaut Debris Disk. Astrophysical Journal, 2017, 842, 8.	4.5	89
35	Colors and K&Eband Counts of Extremely Faint Field Galaxies,. Astrophysical Journal, 1997, 475, 445-456.	4.5	87
36	Discovery of Extreme Asymmetry in the Debris Disk Surrounding HD 15115. Astrophysical Journal, 2007, 661, L85-L88.	4.5	83

#	ARTICLE	IF	CITATIONS
37	First Scattered Light Images of Debris Disks around HD 53143 and HD 139664. <i>Astrophysical Journal</i> , 2006, 637, L57-L60.	4.5	81
38	An Optical/Near-infrared Investigation of HD 100546 b with the Gemini Planet Imager and MagAO. <i>Astronomical Journal</i> , 2017, 153, 244.	4.7	81
39	GEMINI PLANET IMAGER SPECTROSCOPY OF THE HR 8799 PLANETS c AND d. <i>Astrophysical Journal Letters</i> , 2014, 794, L15.	8.3	80
40	DIRECT IMAGING OF AN ASYMMETRIC DEBRIS DISK IN THE HD 106906 PLANETARY SYSTEM. <i>Astrophysical Journal</i> , 2015, 814, 32.	4.5	79
41	SPECTROSCOPIC CHARACTERIZATION OF HD 95086 b WITH THE GEMINI PLANET IMAGER. <i>Astrophysical Journal</i> , 2016, 824, 121.	4.5	78
42	ASTROMETRIC CONFIRMATION AND PRELIMINARY ORBITAL PARAMETERS OF THE YOUNG EXOPLANET 51 ERIDANI b WITH THE GEMINI PLANET IMAGER. <i>Astrophysical Journal Letters</i> , 2015, 814, L3.	8.3	77
43	Gemini Planet Imager observational calibrations I: Overview of the GPI data reduction pipeline. <i>Proceedings of SPIE</i> , 2014, , .	0.8	70
44	Experimental Design for the Gemini Planet Imager. <i>Publications of the Astronomical Society of the Pacific</i> , 2011, 123, 692-708.	3.1	65
45	Debris Disk Results from the Gemini Planet Imager Exoplanet Survey's Polarimetric Imaging Campaign. <i>Astronomical Journal</i> , 2020, 160, 24.	4.7	64
46	THE FIRST <i>H<sub>α</sub></i> -BAND SPECTRUM OF THE GIANT PLANET $\hat{\iota}^2$ PICTORIS b. <i>Astrophysical Journal Letters</i> , 2015, 798, L3.	8.3	61
47	DISCOVERY OF A SUBSTELLAR COMPANION TO THE NEARBY DEBRIS DISK HOST HR 2562. <i>Astrophysical Journal Letters</i> , 2016, 829, L4.	8.3	60
48	Feedback in the Antennae Galaxies (NGC 4038/9). I. High-Resolution Infrared Spectroscopy of Winds from Super Star Clusters. <i>Astrophysical Journal</i> , 2007, 668, 168-181.	4.5	58
49	MODELING SELF-SUBTRACTION IN ANGULAR DIFFERENTIAL IMAGING: APPLICATION TO THE HD 32297 DEBRIS DISK. <i>Astrophysical Journal</i> , 2014, 780, 25.	4.5	58
50	Keck observations of the most distant galaxy: 8C 1435+63 at Z = 4.25. <i>Astrophysical Journal</i> , 1995, 438, L51.	4.5	58
51	Mass Segregation and the Initial Mass Function of Super Star Cluster M82. <i>Astrophysical Journal</i> , 2005, 621, 278-284.	4.5	55
52	CONSTRAINTS ON THE ARCHITECTURE OF THE HD 95086 PLANETARY SYSTEM WITH THE GEMINI PLANET IMAGER. <i>Astrophysical Journal Letters</i> , 2016, 822, L29.	8.3	55
53	FIRST SCATTERED-LIGHT IMAGE OF THE DEBRIS DISK AROUND HD 131835 WITH THE GEMINI PLANET IMAGER. <i>Astrophysical Journal Letters</i> , 2015, 815, L14.	8.3	54
54	Evidence That the Directly Imaged Planet HD 131399 Ab Is a Background Star. <i>Astronomical Journal</i> , 2017, 154, 218.	4.7	52

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55	GPI Spectra of HR 8799 c, d, and e from 1.5 to 2.4 $\hat{1}$ / <sub>4</sub> m with KLIP Forward Modeling. <i>Astronomical Journal</i> , 2018, 155, 226.	4.7	50
56	Gemini planet imager observational calibrations VIII: characterization and role of satellite spots. <i>Proceedings of SPIE</i> , 2014, , .	0.8	48
57	2 Micron Spectroscopy within 0[farcs]3 of Sagittarius A*. <i>Astrophysical Journal</i> , 2000, 533, L49-L52.	4.5	45
58	Discovery of an Optically Thick, Edge-on Disk around the Herbig Ae Star PDS 144N. <i>Astrophysical Journal</i> , 2006, 645, 1272-1282.	4.5	44
59	GEMINI PLANET IMAGER OBSERVATIONS OF THE AU MICROSCOPII DEBRIS DISK: ASYMMETRIES WITHIN ONE ARCSECOND. <i>Astrophysical Journal Letters</i> , 2015, 811, L19.	8.3	41
60	Infrared observations of the Z = 3.8 radio galaxy, 4C 41.17, with the W. M. Keck telescope. <i>Astrophysical Journal</i> , 1994, 420, L5.	4.5	41
61	The Nature of the Halo Population of NGC 5128 Resolved with NICMOS on the [ITAL]HUBBLE SPACE TELESCOPE[/ITAL][ITAL]Hubble Space Telescope[/ITAL]. <i>Astronomical Journal</i> , 2000, 120, 1779-1793.	4.7	37
62	Extremely Red Objects in the Field of QSO 1213 $\hat{~}$ 0017: A Galaxy Concentration at [ITAL][CLC]z[/CLC][ITAL] $\hat{~}$ 1.31. <i>Astronomical Journal</i> , 2000, 119, 2556-2570.	4.7	35
63	THE LYOT PROJECT DIRECT IMAGING SURVEY OF SUBSTELLAR COMPANIONS: STATISTICAL ANALYSIS AND INFORMATION FROM NONDETECTIONS. <i>Astrophysical Journal</i> , 2010, 716, 1551-1565.	4.5	34
64	Gemini planet imager observational calibrations V: astrometry and distortion. <i>Proceedings of SPIE</i> , 2014, , .	0.8	34
65	An Exo $\hat{~}$ Kuiper Belt with an Extended Halo around HD 191089 in Scattered Light. <i>Astrophysical Journal</i> , 2019, 882, 64.	4.5	34
66	BRINGING $\hat{~}$ THE MOTH $\hat{~}$ TO LIGHT: A PLANET-SCULPTING SCENARIO FOR THE HD 61005 DEBRIS DISK. <i>Astronomical Journal</i> , 2016, 152, 85.	4.7	33
67	ORBITAL CONSTRAINTS ON THE $\hat{1}$ / <sub>2</sub> Pic INNER PLANET CANDIDATE WITH KECK ADAPTIVE OPTICS. <i>Astrophysical Journal</i> , 2009, 706, L41-L45.	4.5	32
68	THE BLACK HOLE MASS IN THE BRIGHTEST CLUSTER GALAXY NGC 6086. <i>Astrophysical Journal</i> , 2011, 728, 100.	4.5	32
69	High Spectral Resolution Observations of the Massive Stars in the Galactic Center. <i>Astrophysical Journal</i> , 2006, 641, 891-904.	4.5	31
70	Discovery of an Extended Debris Disk around the F2 V Star HD 15745. <i>Astrophysical Journal</i> , 2007, 671, L161-L164.	4.5	29
71	The Gemini Planet Imager Exoplanet Survey: Dynamical Mass of the Exoplanet $\hat{1}$ / <sub>2</sub> Pictoris b from Combined Direct Imaging and Astrometry. <i>Astronomical Journal</i> , 2020, 159, 71.	4.7	29
72	DYNAMICAL MASS MEASUREMENT OF THE YOUNG SPECTROSCOPIC BINARY V343 NORMAE AaAb RESOLVED WITH THE GEMINI PLANET IMAGER. <i>Astronomical Journal</i> , 2016, 152, 175.	4.7	28

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73	Direct Imaging of the HD 35841 Debris Disk: A Polarized Dust Ring from Gemini Planet Imager and an Outer Halo from HST/STIS. <i>Astronomical Journal</i> , 2018, 156, 47.	4.7	28
74	Efficiency Measurements and Installation of a New Grating for the OSIRIS Spectrograph at Keck Observatory. <i>Publications of the Astronomical Society of the Pacific</i> , 2014, 126, 250-263.	3.1	27
75	THE PECULIAR DEBRIS DISK OF HD 111520 AS RESOLVED BY THE GEMINI PLANET IMAGER. <i>Astrophysical Journal</i> , 2016, 826, 147.	4.5	27
76	POINT SOURCE POLARIMETRY WITH THE GEMINI PLANET IMAGER: SENSITIVITY CHARACTERIZATION WITH T5.5 DWARF COMPANION HD 19467 B. <i>Astrophysical Journal</i> , 2016, 820, 111.	4.5	25
77	THE PDS 66 CIRCUMSTELLAR DISK AS SEEN IN POLARIZED LIGHT WITH THE GEMINI PLANET IMAGER. <i>Astrophysical Journal Letters</i> , 2016, 818, L15.	8.3	22
78	Gemini planet imager observational calibrations VI: photometric and spectroscopic calibration for the integral field spectrograph. <i>Proceedings of SPIE</i> , 2014, , .	0.8	21
79	IMAGING AN 80 au RADIUS DUST RING AROUND THE F5V STAR HD 157587. <i>Astronomical Journal</i> , 2016, 152, 128.	4.7	19
80	The Gemini Planet Imager View of the HD 32297 Debris Disk. <i>Astronomical Journal</i> , 2020, 159, 251.	4.7	19
81	The Potential of Differential Astrometric Interferometry from the High Antarctic Plateau. <i>Publications of the Astronomical Society of Australia</i> , 2002, 19, 318-322.	3.4	18
82	Performance of the integral field spectrograph for the Gemini Planet Imager. <i>Proceedings of SPIE</i> , 2012, , .	0.8	18
83	High-Resolution Infrared Imaging of FSC 10214+4724: Evidence for Gravitational Lensing. <i>Astrophysical Journal</i> , 1995, 449, .	4.5	17
84	The integral field spectrograph for the Gemini planet imager. <i>Proceedings of SPIE</i> , 2014, , .	0.8	17
85	An Updated Visual Orbit of the Directly Imaged Exoplanet 51 Eridani b and Prospects for a Dynamical Mass Measurement with Gaia. <i>Astronomical Journal</i> , 2020, 159, 1.	4.7	16
86	Integral Field Spectroscopy of the Low-mass Companion HD 984 B with the Gemini Planet Imager. <i>Astronomical Journal</i> , 2017, 153, 190.	4.7	15
87	Revised astrometric calibration of the Gemini Planet Imager. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2020, 6, 1.	1.8	15
88	GPI observational calibrations XIV: polarimetric contrasts and new data reduction techniques. <i>Proceedings of SPIE</i> , 2016, , .	0.8	15
89	Gemini planet imager observational calibrations VII: on-sky polarimetric performance of the Gemini planet imager. <i>Proceedings of SPIE</i> , 2014, , .	0.8	13
90	First Resolved Scattered-light Images of Four Debris Disks in Scorpius-Centaurus with the Gemini Planet Imager. <i>Astronomical Journal</i> , 2020, 159, 31.	4.7	12

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91	Imaging the 44 au Kuiper Belt Analog Debris Ring around HD 141569A with GPI Polarimetry. <i>Astronomical Journal</i> , 2020, 159, 53.	4.7	8
92	Asymmetries in adaptive optics point spread functions. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2019, 5, 1.	1.8	6
93	Detection of a Low-mass Stellar Companion to the Accelerating A2IV Star HR 1645. <i>Astronomical Journal</i> , 2019, 158, 226.	4.7	5
94	Performance of the Gemini Planet Imager Non-redundant Mask and Spectroscopy of Two Close-separation Binaries: HR 2690 and HD 142527. <i>Astronomical Journal</i> , 2019, 157, 249.	4.7	3
95	The automated data processing architecture for the GPI Exoplanet Survey. , 2017, , .		3
96	NIRSPEC observations of the galactic center. , 2000, , .		2
97	Near-IR Spectroscopy and Population Synthesis of Super Star Clusters in NGC 1569. <i>Springer Proceedings in Physics</i> , 2001, , 123-128.	0.2	2
98	Polarimetry with the Gemini Planet Imager: Instrument Characterization and Future Science. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 58-59.	0.0	1
99	Large collaboration in observational astronomy: the Gemini Planet Imager exoplanet survey case. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
100	HD 165054: An Astrometric Calibration Field for High-contrast Imagers in Baade's Window. <i>Astronomical Journal</i> , 2020, 159, 244.	4.7	1
101	An Adaptive Optics Survey for Companions to Stars with Extra-Solar Planets. <i>Symposium - International Astronomical Union</i> , 2004, 202, 462-464.	0.1	0
102	Adaptive Optics-Based Measurements of the Black Hole in Abell 2162's BCG. <i>Proceedings of the International Astronomical Union</i> , 2009, 5, 208-208.	0.0	0
103	High-fidelity photometry and astrometry of high-contrast imaged companions using LOCI processing.. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 44-45.	0.0	0