

Gregory P Laughlin

List of Publications by Year in descending order

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90
papers

8,302
citations

101543

36
h-index

51608

86
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90
all docs

90
docs citations

90
times ranked

4717
citing authors

#	ARTICLE	IF	CITATIONS
1	Transiting Exoplanet Survey Satellite. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2014, 1, 014003.	1.8	2,300
2	A $\sim 7.5 M_{\oplus}$ Planet Orbiting the Nearby Star, GJ 876. <i>Astrophysical Journal</i> , 2005, 634, 625-640.	4.5	422
3	The minimum-mass extrasolar nebula: in situ formation of close-in super-Earths. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 431, 3444-3455.	4.4	393
4	The LCES HIRES/Keck Precision Radial Velocity Exoplanet Survey. <i>Astronomical Journal</i> , 2017, 153, 208.	4.7	391
5	3.6 AND 4.5 μm PHASE CURVES AND EVIDENCE FOR NON-EQUILIBRIUM CHEMISTRY IN THE ATMOSPHERE OF EXTRASOLAR PLANET HD 189733b. <i>Astrophysical Journal</i> , 2012, 754, 22.	4.5	264
6	On the Radii of Extrasolar Giant Planets. <i>Astrophysical Journal</i> , 2003, 592, 555-563.	4.5	250
7	THE LICK-CARNEGIE EXOPLANET SURVEY: A URANUS-MASS FOURTH PLANET FOR GJ 876 IN AN EXTRASOLAR LAPLACE CONFIGURATION. <i>Astrophysical Journal</i> , 2010, 719, 890-899.	4.5	244
8	IN SITU FORMATION AND DYNAMICAL EVOLUTION OF HOT JUPITER SYSTEMS. <i>Astrophysical Journal</i> , 2016, 829, 114.	4.5	215
9	<i>Spitzer</i> Transit and Secondary Eclipse Photometry of GJ 436b. <i>Astrophysical Journal</i> , 2007, 667, L199-L202.	4.5	172
10	ON THE ANOMALOUS RADII OF THE TRANSITING EXTRASOLAR PLANETS. <i>Astrophysical Journal Letters</i> , 2011, 729, L7.	8.3	159
11	Short-Term Dynamical Interactions among Extrasolar Planets. <i>Astrophysical Journal</i> , 2001, 551, L109-L113.	4.5	158
12	ORBITAL PHASE VARIATIONS OF THE ECCENTRIC GIANT PLANET HAT-P-2b. <i>Astrophysical Journal</i> , 2013, 766, 95.	4.5	153
13	THE 4.5 μm FULL-ORBIT PHASE CURVE OF THE HOT JUPITER HD 209458b. <i>Astrophysical Journal</i> , 2014, 790, 53.	4.5	152
14	TESS Discovery of a Transiting Super-Earth in the π Mensae System. <i>Astrophysical Journal Letters</i> , 2018, 868, L39.	8.3	148
15	Kepler Multi-planet Systems Exhibit Unexpected Intra-system Uniformity in Mass and Radius. <i>Astrophysical Journal Letters</i> , 2017, 849, L33.	8.3	134
16	3.6 AND 4.5 μm SPITZER PHASE CURVES OF THE HIGHLY IRRADIATED HOT JUPITERS WASP-19b AND HAT-P-7b. <i>Astrophysical Journal</i> , 2016, 823, 122.	4.5	129
17	A <i>SPITZER</i> TRANSMISSION SPECTRUM FOR THE EXOPLANET GJ 436b, EVIDENCE FOR STELLAR VARIABILITY, AND CONSTRAINTS ON DAYSIDE FLUX VARIATIONS. <i>Astrophysical Journal</i> , 2011, 735, 27.	4.5	115
18	DETERMINATION OF THE INTERIOR STRUCTURE OF TRANSITING PLANETS IN MULTIPLE-PLANET SYSTEMS. <i>Astrophysical Journal</i> , 2009, 704, L49-L53.	4.5	108

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19	3.6 AND 4.5 μm PHASE CURVES OF THE HIGHLY IRRADIATED ECCENTRIC HOT JUPITER WASP-14b. <i>Astrophysical Journal</i> , 2015, 811, 122.	4.5	97
20	WARM SPITZER PHOTOMETRY OF THE TRANSITING EXOPLANETS CoRoT-1 AND CoRoT-2 AT SECONDARY ECLIPSE. <i>Astrophysical Journal</i> , 2011, 726, 95.	4.5	92
21	Rapid heating of the atmosphere of an extrasolar planet. <i>Nature</i> , 2009, 457, 562-564.	27.8	90
22	Turbulence Implies that Mean Motion Resonances are Rare. <i>Astrophysical Journal</i> , 2008, 683, 1117-1128.	4.5	89
23	Silicon and Nickel Enrichment in Planet Host Stars: Observations and Implications for the Core Accretion Theory of Planet Formation. <i>Astrophysical Journal</i> , 2006, 643, 484-500.	4.5	82
24	SIX PLANETS ORBITING HD 219134. <i>Astrophysical Journal</i> , 2015, 814, 12.	4.5	75
25	WARM SPITZER PHOTOMETRY OF THREE HOT JUPITERS: HAT-P-3b, HAT-P-4b AND HAT-P-12b. <i>Astrophysical Journal</i> , 2013, 770, 102.	4.5	71
26	WARM SPITZER OBSERVATIONS OF THREE HOT EXOPLANETS: XO-4b, HAT-P-6b, AND HAT-P-8b. <i>Astrophysical Journal</i> , 2012, 746, 111.	4.5	69
27	Obliquity-driven sculpting of exoplanetary systems. <i>Nature Astronomy</i> , 2019, 3, 424-433.	10.1	69
28	Hydrodynamic Simulations of Unevenly Irradiated Jovian Planets. <i>Astrophysical Journal</i> , 2008, 674, 1106-1116.	4.5	66
29	HD 202772A b: A Transiting Hot Jupiter around a Bright, Mildly Evolved Star in a Visual Binary Discovered by TESS. <i>Astronomical Journal</i> , 2019, 157, 51.	4.7	66
30	The Feasibility and Benefits of In Situ Exploration of Oumuamua-like Objects. <i>Astronomical Journal</i> , 2018, 155, 217.	4.7	63
31	THE LICK-CARNEGIE EXOPLANET SURVEY: HD 32963 A NEW JUPITER ANALOG ORBITING A SUN-LIKE STAR. <i>Astrophysical Journal</i> , 2016, 817, 104.	4.5	60
32	Constraints on Planet Nine's Orbit and Sky Position within a Framework of Mean-motion Resonances. <i>Astronomical Journal</i> , 2017, 153, 91.	4.7	58
33	CONSTRAINTS ON THE ATMOSPHERIC CIRCULATION AND VARIABILITY OF THE ECCENTRIC HOT JUPITER XO-3b. <i>Astrophysical Journal</i> , 2014, 794, 134.	4.5	56
34	The GJ 876 Planetary System: A Progress Report. <i>Astrophysical Journal</i> , 2005, 622, 1182-1190.	4.5	55
35	THE HUNT FOR PLANET NINE: ATMOSPHERE, SPECTRA, EVOLUTION, AND DETECTABILITY. <i>Astrophysical Journal Letters</i> , 2016, 824, L25.	8.3	53
36	SPITZER SECONDARY ECLIPSE OBSERVATIONS OF FIVE COOL GAS GIANT PLANETS AND EMPIRICAL TRENDS IN COOL PLANET EMISSION SPECTRA. <i>Astrophysical Journal</i> , 2015, 810, 118.	4.5	52

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37	Stellar Spin-Orbit Alignment for Kepler-9, a Multi-transiting Planetary System with Two Outer Planets Near 2:1 Resonance. <i>Astronomical Journal</i> , 2018, 155, 70.	4.7	52
38	Evidence that 1I/2017 U1 (ʻOumuamua) was Composed of Molecular Hydrogen Ice. <i>Astrophysical Journal Letters</i> , 2020, 896, L8.	8.3	50
39	THE LICK-CARNEGIE EXOPLANET SURVEY: GLIESE 687 b—A NEPTUNE-MASS PLANET ORBITING A NEARBY RED DWARF. <i>Astrophysical Journal</i> , 2014, 789, 114.	4.5	49
40	RELATIVISTIC EFFECTS IN EXTRASOLAR PLANETARY SYSTEMS. <i>International Journal of Modern Physics D</i> , 2006, 15, 2133-2140.	2.1	46
41	SECONDARY ECLIPSE PHOTOMETRY OF THE EXOPLANET WASP-5b WITH WARM SPITZER.	4.5	46
42	A GROUND-BASED ALBEDO UPPER LIMIT FOR HD 189733b FROM POLARIMETRY. <i>Astrophysical Journal</i> , 2015, 813, 48.	4.5	46
43	DIRECT MEASURE OF RADIATIVE AND DYNAMICAL PROPERTIES OF AN EXOPLANET ATMOSPHERE. <i>Astrophysical Journal Letters</i> , 2016, 820, L33.	8.3	44
44	Transiting Exoplanet Monitoring Project (TEMP). II. Refined System Parameters and Transit Timing Analysis of HAT-P-33b. <i>Astronomical Journal</i> , 2017, 154, 49.	4.7	40
45	TOWARD THE DETECTION OF EXOPLANET TRANSITS WITH POLARIMETRY. <i>Astrophysical Journal</i> , 2014, 795, 12.	4.5	38
46	A FOUR-PLANET SYSTEM ORBITING THE KOV STAR HD 141399. <i>Astrophysical Journal</i> , 2014, 787, 97.	4.5	37
47	Planet-induced Stellar Pulsations in HAT-P-2's Eccentric System. <i>Astrophysical Journal Letters</i> , 2017, 836, L17.	8.3	36
48	Transiting Exoplanet Monitoring Project (TEMP). III. On the Relocation of the Kepler-9 b Transit. <i>Astronomical Journal</i> , 2018, 155, 73.	4.7	34
49	ON THE DETECTION OF NON-TRANSITING HOT JUPITERS IN MULTIPLE-PLANET SYSTEMS. <i>Astrophysical Journal Letters</i> , 2016, 823, L7.	8.3	33
50	Supervised Learning Detection of Sixty Non-transiting Hot Jupiter Candidates. <i>Astronomical Journal</i> , 2017, 154, 83.	4.7	32
51	New Constraints on Gliese 876—Exemplar of Mean-motion Resonance. <i>Astronomical Journal</i> , 2018, 155, 106.	4.7	32
52	A Six-planet System around the Star HD 34445. <i>Astronomical Journal</i> , 2017, 154, 181.	4.7	30
53	On the Anomalous Acceleration of 1I/2017 U1 —Oumuamua. <i>Astrophysical Journal Letters</i> , 2019, 876, L26.	8.3	28
54	Formation and detection of Earth mass planets around low mass stars. <i>Icarus</i> , 2009, 202, 1-11.	2.5	27

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55	Obliquity Tides May Drive WASP-12b's Rapid Orbital Decay. <i>Astrophysical Journal Letters</i> , 2018, 869, L15.	8.3	27
56	On the Consequences of the Detection of an Interstellar Asteroid. <i>Research Notes of the AAS</i> , 2017, 1, 43.	0.7	27
57	The Aligned Orbit of WASP-148b, the Only Known Hot Jupiter with a nearby Warm Jupiter Companion, from NEID and HIRES. <i>Astrophysical Journal Letters</i> , 2022, 926, L8.	8.3	23
58	Origins of Hot Jupiters from the Stellar Obliquity Distribution. <i>Astrophysical Journal Letters</i> , 2022, 926, L17.	8.3	22
59	EXPRES. I. HD 3651 as an Ideal RV Benchmark. <i>Astronomical Journal</i> , 2020, 160, 67.	4.7	21
60	Constraints on the Occurrence of Oumuamua-Like Objects. <i>Astrophysical Journal</i> , 2021, 922, 39.	4.5	21
61	Hidden Planets: Implications from Oumuamua and DSHARP. <i>Astrophysical Journal Letters</i> , 2019, 884, L22.	8.3	20
62	Transiting Exoplanet Monitoring Project (TEMP). V. Transit Follow Up for HAT-P-9b, HAT-P-32b, and HAT-P-36b. <i>Astronomical Journal</i> , 2019, 157, 82.	4.7	20
63	The Aligned Orbit of the Eccentric Warm Jupiter K2-232b. <i>Astronomical Journal</i> , 2021, 162, 50.	4.7	20
64	Energy optimization in extrasolar planetary systems: the transition from peas-in-a-pod to runaway growth. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 5520-5531.	4.4	19
65	Evidence Suggesting That Oumuamua Is the $\sim 1/30$ Myr Old Product of a Molecular Cloud. <i>Astrophysical Journal</i> , 2021, 917, 20.	4.5	19
66	SOLES I: The Spin-Orbit Alignment of K2-140 b. <i>Astronomical Journal</i> , 2021, 162, 182.	4.7	19
67	Transiting Exoplanet Monitoring Project (TEMP). IV. Refined System Parameters, Transit Timing Variations, and Orbital Stability of the Transiting Planetary System HAT-P-25. <i>Publications of the Astronomical Society of the Pacific</i> , 2018, 130, 064401.	3.1	17
68	Assessing the Formation of Solid Hydrogen Objects in Starless Molecular Cloud Cores. <i>Astrophysical Journal</i> , 2021, 912, 3.	4.5	17
69	Transiting Exoplanet Monitoring Project (TEMP). VI. The Homogeneous Refinement of System Parameters for 39 Transiting Hot Jupiters with 127 New Light Curves. <i>Astrophysical Journal, Supplement Series</i> , 2021, 255, 15.	7.7	16
70	Transiting Exoplanet Monitoring Project (TEMP). I. Refined System Parameters and Transit Timing Variations of HAT-P-29b. <i>Astronomical Journal</i> , 2018, 156, 181.	4.7	15
71	On the Spin Dynamics of Elongated Minor Bodies with Applications to a Possible Solar System Analogue Composition for Oumuamua. <i>Astrophysical Journal</i> , 2021, 920, 28.	4.5	14
72	Signatures of Obliquity in Thermal Phase Curves of Hot Jupiters. <i>Astronomical Journal</i> , 2019, 158, 108.	4.7	13

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73	An Orbital Window into the Ancient Sun's Mass. <i>Astrophysical Journal Letters</i> , 2018, 869, L19.	8.3	12
74	Exploring Trans-Neptunian Space with TESS: A Targeted Shift-stacking Search for Planet Nine and Distant TNOs in the Galactic Plane. <i>Planetary Science Journal</i> , 2020, 1, 81.	3.6	11
75	Reassessing Exoplanet Light Curves with a Thermal Model. <i>Astronomical Journal</i> , 2018, 156, 28.	4.7	9
76	TTV-determined Masses for Warm Jupiters and Their Close Planetary Companions. <i>Astronomical Journal</i> , 2018, 156, 96.	4.7	8
77	A Collage of Small Planets from the Lick's Carnegie Exoplanet Survey: Exploring the Super-Earth and Sub-Neptune Mass Regime*. <i>Astronomical Journal</i> , 2021, 161, 10.	4.7	7
78	A Vorticity-preserving Hydrodynamical Scheme for Modeling Accretion Disk Flows. <i>Astrophysical Journal</i> , 2017, 848, 54.	4.5	6
79	Thermal Phase Curves of XO-3b: An Eccentric Hot Jupiter at the Deuterium Burning Limit. <i>Astronomical Journal</i> , 2022, 163, 32.	4.7	6
80	Mass-Radius Relations of Giant Planets: The Radius Anomaly and Interior Models. , 2018, , 1-17.		4
81	A Dance of Extrasolar Planets. <i>Science</i> , 2010, 330, 47-48.	12.6	3
82	The Case for a Large-scale Occultation Network. <i>Astronomical Journal</i> , 2019, 158, 19.	4.7	3
83	Do Oceanic Convection and Clathrate Dissociation Drive Europa's Geysers?. <i>Planetary Science Journal</i> , 2021, 2, 221.	3.6	3
84	Lunar Exploration as a Probe of Ancient Venus. <i>Planetary Science Journal</i> , 2020, 1, 66.	3.6	3
85	Mass-Radius Relations of Giant Planets: The Radius Anomaly and Interior Models. , 2018, , 1357-1373.		2
86	A Performed Solution to the Pythagorean Problem: The <i><i>Three Bodies</i></i> Project. <i>Leonardo</i> , 2020, 53, 145-150.	0.3	2
87	Revisiting the Full Sets of Orbital Parameters for the XO-3 System: No Evidence for Temporal Variation of the Spin-Orbit Angle. <i>Astronomical Journal</i> , 2022, 163, 158.	4.7	2
88	The Prospects for Hurricane-like Vortices in Protoplanetary Disks. <i>Astrophysical Journal</i> , 2022, 930, 68.	4.5	1
89	A Mars-sized exoplanet. <i>Nature</i> , 2015, 522, 290-291.	27.8	0
90	Stacked Periodograms as a Probe of Exoplanetary Populations. <i>Astronomical Journal</i> , 2022, 163, 206.	4.7	0