

Ronald Gilliland

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

16,056
citations

41627

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129628

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docs citations

63
times ranked

6280
citing authors

#	ARTICLE	IF	CITATIONS
1	Kepler Planet-Detection Mission: Introduction and First Results. <i>Science</i> , 2010, 327, 977-980.	6.0	2,848
2	<i>KEPLER MISSION</i> DESIGN, REALIZED PHOTOMETRIC PERFORMANCE, AND EARLY SCIENCE. <i>Astrophysical Journal Letters</i> , 2010, 713, L79-L86.	3.0	941
3	CHARACTERISTICS OF PLANETARY CANDIDATES OBSERVED BY<i>KEPLER</i>. II. ANALYSIS OF THE FIRST FOUR MONTHS OF DATA. <i>Astrophysical Journal</i> , 2011, 736, 19.	1.6	859
4	PLANETARY CANDIDATES OBSERVED BY <i>KEPLER</i> . III. ANALYSIS OF THE FIRST 16 MONTHS OF DATA. <i>Astrophysical Journal</i> , Supplement Series, 2013, 204, 24.	3.0	823
5	An abundance of small exoplanets around stars with a wide range of metallicities. <i>Nature</i> , 2012, 486, 375-377.	13.7	546
6	Detection of possible p-mode oscillations on Procyon. <i>Astrophysical Journal</i> , 1991, 368, 599.	1.6	479
7	<i>KEPLER</i>'S FIRST ROCKY PLANET: KEPLER-10b. <i>Astrophysical Journal</i> , 2011, 729, 27.	1.6	473
8	Gravity modes as a way to distinguish between hydrogen- and helium-burning red giant stars. <i>Nature</i> , 2011, 471, 608-611.	13.7	465
9	VALIDATION OF<i>KEPLER</i>'S MULTIPLE PLANET CANDIDATES. III. LIGHT CURVE ANALYSIS AND ANNOUNCEMENT OF HUNDREDS OF NEW MULTI-PLANET SYSTEMS. <i>Astrophysical Journal</i> , 2014, 784, 45.	1.6	418
10	MASSES, RADII, AND ORBITS OF SMALL <i>KEPLER</i> PLANETS: THE TRANSITION FROM GASEOUS TO ROCKY PLANETS. <i>Astrophysical Journal</i> , Supplement Series, 2014, 210, 20.	3.0	418
11	Kepler-9: A System of Multiple Planets Transiting a Sun-Like Star, Confirmed by Timing Variations. <i>Science</i> , 2010, 330, 51-54.	6.0	339
12	INITIAL CHARACTERISTICS OF <i>KEPLER</i> LONG CADENCE DATA FOR DETECTING TRANSITING PLANETS. <i>Astrophysical Journal Letters</i> , 2010, 713, L120-L125.	3.0	313
13	CHARACTERISTICS OF<i>KEPLER</i> PLANETARY CANDIDATES BASED ON THE FIRST DATA SET. <i>Astrophysical Journal</i> , 2011, 728, 117.	1.6	313
14	TESTING SCALING RELATIONS FOR SOLAR-LIKE OSCILLATIONS FROM THE MAIN SEQUENCE TO RED GIANTS USING<i>KEPLER</i> DATA. <i>Astrophysical Journal</i> , 2011, 743, 143.	1.6	303
15	THE APOKASC CATALOG: AN ASTEROSEISMIC AND SPECTROSCOPIC JOINT SURVEY OF TARGETS IN THE <i>KEPLER</i> FIELDS. <i>Astrophysical Journal</i> , Supplement Series, 2014, 215, 19.	3.0	268
16	Ensemble Asteroseismology of Solar-Type Stars with the NASA Kepler Mission. <i>Science</i> , 2011, 332, 213-216.	6.0	267
17	The Sirius System and Its Astrophysical Puzzles: Hubble Space Telescope and Ground-based Astrometry^{âˆ—}. <i>Astrophysical Journal</i> , 2017, 840, 70.	1.6	266
18	SELECTION, PRIORITIZATION, AND CHARACTERISTICS OF <i>KEPLER</i> TARGET STARS. <i>Astrophysical Journal Letters</i> , 2010, 713, L109-L114.	3.0	265

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19	FUNDAMENTAL PROPERTIES OF <i>KEPLER</i> PLANET-CANDIDATE HOST STARS USING ASTEROSEISMOLOGY. <i>Astrophysical Journal</i> , 2013, 767, 127.	1.6	259
20	<i>HUBBLE SPACE TELESCOPE</i> ASTROMETRY OF THE PROCYON SYSTEM. <i>Astrophysical Journal</i> , 2015, 813, 106.	1.6	235
21	Preparation of <i>Kepler</i> light curves for asteroseismic analyses. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2011, 414, L6-L10.	1.2	230
22	PLANETARY CANDIDATES OBSERVED BY <i>KEPLER</i> IV: PLANET SAMPLE FROM Q1-Q8 (22 MONTHS). <i>Astrophysical Journal</i> , Supplement Series, 2014, 210, 19.	3.0	222
23	Kepler-22b: A 2.4 EARTH-RADIUS PLANET IN THE HABITABLE ZONE OF A SUN-LIKE STAR. <i>Astrophysical Journal</i> , 2012, 745, 120.	1.6	218
24	MODELING <i>KEPLER</i> TRANSIT LIGHT CURVES AS FALSE POSITIVES: REJECTION OF BLEND SCENARIOS FOR KEPLER-9, AND VALIDATION OF KEPLER-9 d, A SUPER-EARTH-SIZE PLANET IN A MULTIPLE SYSTEM. <i>Astrophysical Journal</i> , 2011, 727, 24.	1.6	215
25	FUNDAMENTAL PROPERTIES OF STARS USING ASTEROSEISMOLOGY FROM <i>KEPLER</i> AND <i>CoRoT</i> AND INTERFEROMETRY FROM THE CHARA ARRAY. <i>Astrophysical Journal</i> , 2012, 760, 32.	1.6	206
26	SOLAR-LIKE OSCILLATIONS IN LOW-LUMINOSITY RED GIANTS: FIRST RESULTS FROM <i>KEPLER</i> . <i>Astrophysical Journal Letters</i> , 2010, 713, L176-L181.	3.0	203
27	ASTEROSEISMIC CLASSIFICATION OF STELLAR POPULATIONS AMONG 13,000 RED GIANTS OBSERVED BY <i>KEPLER</i> . <i>Astrophysical Journal Letters</i> , 2013, 765, L41.	3.0	198
28	Asteroseismology of red giants from the first four months of <i>Kepler</i> data: Fundamental stellar parameters. <i>Astronomy and Astrophysics</i> , 2010, 522, A1.	2.1	191
29	PHOTOMETRIC VARIABILITY IN <i>KEPLER</i> TARGET STARS. II. AN OVERVIEW OF AMPLITUDE, PERIODICITY, AND ROTATION IN FIRST QUARTER DATA. <i>Astronomical Journal</i> , 2011, 141, 20.	1.9	187
30	VALIDATION OF <i>KEPLER</i> 'S MULTIPLE PLANET CANDIDATES. II. REFINED STATISTICAL FRAMEWORK AND DESCRIPTIONS OF SYSTEMS OF SPECIAL INTEREST. <i>Astrophysical Journal</i> , 2014, 784, 44.	1.6	182
31	<i>KEPLER</i> MISSION STELLAR AND INSTRUMENT NOISE PROPERTIES. <i>Astrophysical Journal</i> , Supplement Series, 2011, 197, 6.	3.0	175
32	Hubble Space Telescope Absolute Spectrophotometry of Vega from the Far-Ultraviolet to the Infrared. <i>Astronomical Journal</i> , 2004, 127, 3508-3515.	1.9	171
33	THE KEPLER FOLLOW-UP OBSERVATION PROGRAM. I. A CATALOG OF COMPANIONS TO KEPLER STARS FROM HIGH-RESOLUTION IMAGING. <i>Astronomical Journal</i> , 2017, 153, 71.	1.9	169
34	ASTEROSEISMOLOGY OF RED GIANTS FROM THE FIRST FOUR MONTHS OF <i>KEPLER</i> DATA: GLOBAL OSCILLATION PARAMETERS FOR 800 STARS. <i>Astrophysical Journal</i> , 2010, 723, 1607-1617.	1.6	168
35	PLANETARY CANDIDATES OBSERVED BY <i>KEPLER</i> . V. PLANET SAMPLE FROM Q1-Q12 (36 MONTHS). <i>Astrophysical Journal</i> , Supplement Series, 2015, 217, 16.	3.0	166
36	DISCOVERY AND VALIDATION OF Kepler-452b: A 1.6 R_{\oplus} SUPER EARTH EXOPLANET IN THE HABITABLE ZONE OF A G2 STAR. <i>Astronomical Journal</i> , 2015, 150, 56.	1.9	156

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37	VERIFYING ASTEROSEISMICALLY DETERMINED PARAMETERS OF <i>KEPLER</i> STARS USING <i>HIPPARCOS</i> PARALLAXES: SELF-CONSISTENT STELLAR PROPERTIES AND DISTANCES. <i>Astrophysical Journal</i> , 2012, 757, 99.	1.6	151
38	Identification of Background False Positives from <i>Kepler</i> Data. <i>Publications of the Astronomical Society of the Pacific</i> , 2013, 125, 889-923.	1.0	143
39	KEPLER-20: A SUN-LIKE STAR WITH THREE SUB-NEPTUNE EXOPLANETS AND TWO EARTH-SIZE CANDIDATES. <i>Astrophysical Journal</i> , 2012, 749, 15.	1.6	125
40	KEPLER-21b: A 1.6 R_{Earth} PLANET TRANSITING THE BRIGHT OSCILLATING F SUBGIANT STAR HD 179070. <i>Astrophysical Journal</i> , 2012, 746, 123.	1.6	124
41	SOUNDING OPEN CLUSTERS: ASTEROSEISMIC CONSTRAINTS FROM <i>KEPLER</i> ON THE PROPERTIES OF NGC 6791 AND NGC 6819. <i>Astrophysical Journal Letters</i> , 2011, 729, L10.	3.0	120
42	KEPLER-10 c: A 2.2 EARTH RADIUS TRANSITING PLANET IN A MULTIPLE SYSTEM. <i>Astrophysical Journal</i> , Supplement Series, 2011, 197, 5.	3.0	103
43	Solar-like oscillations in red giants observed with <i>Kepler</i> : comparison of global oscillation parameters from different methods. <i>Astronomy and Astrophysics</i> , 2011, 525, A131.	2.1	100
44	The Occurrence of Rocky Habitable-zone Planets around Solar-like Stars from Kepler Data. <i>Astronomical Journal</i> , 2021, 161, 36.	1.9	96
45	Characterization of red giant stars in the public Kepler data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 414, 2594-2601.	1.6	89
46	AN ASTEROSEISMIC MEMBERSHIP STUDY OF THE RED GIANTS IN THREE OPEN CLUSTERS OBSERVED BY <i>KEPLER</i> : NGC 6791, NGC 6819, AND NGC 6811. <i>Astrophysical Journal</i> , 2011, 739, 13.	1.6	88
47	High-Redshift Supernovae in the Hubble Deep Field. <i>Astrophysical Journal</i> , 1999, 521, 30-49.	1.6	87
48	DISCOVERY AND ATMOSPHERIC CHARACTERIZATION OF GIANT PLANET KEPLER-12b: AN INFLATED RADIUS OUTLIER. <i>Astrophysical Journal</i> , Supplement Series, 2011, 197, 9.	3.0	82
49	Evidence for Atmospheric Cold-trap Processes in the Noninverted Emission Spectrum of Kepler-13Ab Using HST/WFC3. <i>Astronomical Journal</i> , 2017, 154, 158.	1.9	71
50	MULTIWAVELENGTH OBSERVATIONS OF THE CANDIDATE DISINTEGRATING SUB-MERCURY KIC 12557548B, .. <i>Astrophysical Journal</i> , 2014, 786, 100.	1.6	66
51	LOW FALSE POSITIVE RATE OF <i>KEPLER</i> CANDIDATES ESTIMATED FROM A COMBINATION OF <i>SPITZER</i> AND FOLLOW-UP OBSERVATIONS. <i>Astrophysical Journal</i> , 2015, 804, 59.	1.6	62
52	<i>KEPLER</i> MISSION STELLAR AND INSTRUMENT NOISE PROPERTIES REVISITED. <i>Astronomical Journal</i> , 2015, 150, 133.	1.9	60
53	A Redetermination of the Mass of Procyon. <i>Astronomical Journal</i> , 2000, 119, 2428-2436.	1.9	55
54	AMPLITUDES OF SOLAR-LIKE OSCILLATIONS: CONSTRAINTS FROM RED GIANTS IN OPEN CLUSTERS OBSERVED BY <i>KEPLER</i> . <i>Astrophysical Journal Letters</i> , 2011, 737, L10.	3.0	53

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55	<i>HUBBLE SPACE TELESCOPE</i> HIGH-RESOLUTION IMAGING OF <i>KEPLER</i> SMALL AND COOL EXOPLANET HOST STARS. <i>Astronomical Journal</i> , 2015, 149, 24.	1.9	50
56	Near-Field Microlensing and Its Effects on Stellar Transit Observations by Kepler. <i>Astrophysical Journal</i> , 2003, 584, 1042-1052.	1.6	49
57	REVISION OF EARTH-SIZED <i>KEPLER</i> PLANET CANDIDATE PROPERTIES WITH HIGH-RESOLUTION IMAGING BY THE <i>HUBBLE SPACE TELESCOPE</i>. <i>Astrophysical Journal</i> , 2015, 804, 97.	1.6	41
58	CONSTRUCTING A ONE-SOLAR-MASS EVOLUTIONARY SEQUENCE USING ASTEROSEISMIC DATA FROM <i>KEPLER</i>. <i>Astrophysical Journal Letters</i> , 2011, 740, L2.	3.0	37
59	A simple model to describe intrinsic stellar noise for exoplanet detection around red giants. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 465, 1308-1315.	1.6	23
60	DETECTION OF SOLAR-LIKE OSCILLATIONS, OBSERVATIONAL CONSTRAINTS, AND STELLAR MODELS FOR $\hat{\iota}$, CYG, THE BRIGHTEST STAR OBSERVED BY THE KEPLER MISSION. <i>Astrophysical Journal</i> , 2016, 831, 17.	1.6	14
61	Hubble Space Telescope Astrometry of the Metal-poor Visual Binary $\hat{\iota}$ / ₄ Cassiopeiae: Dynamical Masses, Helium Content, and Age*. <i>Astrophysical Journal</i> , 2020, 904, 112.	1.6	4
62	Final Hubble Space Telescope Astrometry of the Procyon Binary System*. <i>Research Notes of the AAS</i> , 2018, 2, 147.	0.3	4