

# William F Welsh

## List of Publications by Year in descending order

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55  
papers

11,719  
citations

117625

34  
h-index

168389

53  
g-index

55  
all docs

55  
docs citations

55  
times ranked

5074  
citing authors

#	ARTICLE	IF	CITATIONS
1	TESS Eclipsing Binary Stars. I. Short-cadence Observations of 4584 Eclipsing Binaries in Sectors 1â€“26. <i>Astrophysical Journal, Supplement Series</i> , 2022, 258, 16.	7.7	50
2	Photodynamical Modeling of the Fascinating Eclipses in the Triple-star System KOI-126. <i>Astrophysical Journal</i> , 2022, 924, 66.	4.5	4
3	Ninety-seven Eclipsing Quadruple Star Candidates Discovered in TESS Full-frame Images. <i>Astrophysical Journal, Supplement Series</i> , 2022, 259, 66.	7.7	16
4	TIC 454140642: A Compact, Coplanar, Quadruple-lined Quadruple Star System Consisting of Two Eclipsing Binaries. <i>Astrophysical Journal</i> , 2021, 917, 93.	4.5	19
5	The Occurrence of Rocky Habitable-zone Planets around Solar-like Stars from Kepler Data. <i>Astronomical Journal</i> , 2021, 161, 36.	4.7	96
6	TIC 172900988: A Transiting Circumbinary Planet Detected in One Sector of TESS Data. <i>Astronomical Journal</i> , 2021, 162, 234.	4.7	30
7	The Resilience of Habitable Climates Around Circumbinary Stars. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006576.	3.6	7
8	The EBLM project â€“ VII. Spinâ€“orbit alignment for the circumbinary planet host EBLM J0608-59â€“A/TOI-1338â€“A. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 1627-1633.	4.4	10
9	TOI-1338: TESSâ€™ First Transiting Circumbinary Planet. <i>Astronomical Journal</i> , 2020, 159, 253.	4.7	58
10	Kepler-1661 b: A Neptune-sized Kepler Transiting Circumbinary Planet around a Grazing Eclipsing Binary. <i>Astronomical Journal</i> , 2020, 159, 94.	4.7	32
11	Multiple Transits during a Single Conjunction: Identifying Transiting Circumbinary Planetary Candidates from TESS. <i>Astronomical Journal</i> , 2020, 160, 174.	4.7	4
12	Fast Transit Computation Using Tabulated Stellar Intensities. <i>Astronomical Journal</i> , 2020, 160, 218.	4.7	1
13	An automated method to detect transiting circumbinary planets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 1313-1324.	4.4	15
14	Habitable Zone Boundaries for Circumbinary Planets. <i>Publications of the Astronomical Society of the Pacific</i> , 2019, 131, 124402.	3.1	11
15	Stellar Properties of KIC 8736245: An Eclipsing Binary with a Solar-type Star Leaving the Main Sequence. <i>Astronomical Journal</i> , 2019, 158, 198.	4.7	6
16	Discovery of a Third Transiting Planet in the Kepler-47 Circumbinary System. <i>Astronomical Journal</i> , 2019, 157, 174.	4.7	65
17	Constraining the Magnitude of Climate Extremes From Timeâ€“Varying Irradiation on a Circumbinary Terrestrial Planet. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 3231-3243.	3.6	11
18	Note on the Power-2 Limb-darkening Law. <i>Research Notes of the AAS</i> , 2019, 3, 117.	0.7	7

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19	Two Suns in the Sky: The Kepler Circumbinary Planets. , 2018, , 2749-2768.		9
20	Accurate Computation of Light Curves and the Rossiterâ€“McLaughlin Effect in Multibody Eclipsing Systems. <i>Astronomical Journal</i> , 2018, 156, 297.	4.7	15
21	KIC 9832227: Using Vulcan Data to Negate the 2022 Red Nova Merger Prediction. <i>Astrophysical Journal Letters</i> , 2018, 864, L32.	8.3	16
22	Planetary Candidates Observed by <i>Kepler</i> . VIII. A Fully Automated Catalog with Measured Completeness and Reliability Based on Data Release 25. <i>Astrophysical Journal, Supplement Series</i> , 2018, 235, 38.	7.7	316
23	Two Suns in the Sky: The Kepler Circumbinary Planets. , 2017, , 1-21.		1
24	KEPLER-1647B: THE LARGEST AND LONGEST-PERIOD KEPLER TRANSITING CIRCUMBINARY PLANET. <i>Astrophysical Journal</i> , 2016, 827, 86.	4.5	101
25	KEPLER ECLIPSING BINARY STARS. VII. THE CATALOG OF ECLIPSING BINARIES FOUND IN THE ENTIRE KEPLER DATA SET. <i>Astronomical Journal</i> , 2016, 151, 68.	4.7	302
26	KEPLER 453 bâ€“THE 10th<i>KEPLER</i>TRANSITING CIRCUMBINARY PLANET. <i>Astrophysical Journal</i> , 2015, 809, 26.	4.5	130
27	TIME VARIATION OF<i>KEPLER</i>TRANSITS INDUCED BY STELLAR SPOTSâ€“A WAY TO DISTINGUISH BETWEEN PROGRADE AND RETROGRADE MOTION. II. APPLICATION TO KOIs. <i>Astrophysical Journal</i> , 2015, 807, 170.	4.5	38
28	MASSES, RADII, AND ORBITS OF SMALL <i>KEPLER</i> PLANETS: THE TRANSITION FROM GASEOUS TO ROCKY PLANETS. <i>Astrophysical Journal, Supplement Series</i> , 2014, 210, 20.	7.7	418
29	<i>KEPLER</i>ECLIPSING BINARY STARS. IV. PRECISE ECLIPSE TIMES FOR CLOSE BINARIES AND IDENTIFICATION OF CANDIDATE THREE-BODY SYSTEMS. <i>Astronomical Journal</i> , 2014, 147, 45.	4.7	143
30	PLANETARY CANDIDATES OBSERVED BY <i>KEPLER</i> . III. ANALYSIS OF THE FIRST 16 MONTHS OF DATA. <i>Astrophysical Journal, Supplement Series</i> , 2013, 204, 24.	7.7	823
31	PLANET HUNTERS: A TRANSITING CIRCUMBINARY PLANET IN A QUADRUPLE STAR SYSTEM. <i>Astrophysical Journal</i> , 2013, 768, 127.	4.5	202
32	ALL SIX PLANETS KNOWN TO ORBIT KEPLER-11 HAVE LOW DENSITIES. <i>Astrophysical Journal</i> , 2013, 770, 131.	4.5	145
33	TRANSIT TIMING OBSERVATIONS FROM <i>KEPLER</i> . VIII. CATALOG OF TRANSIT TIMING MEASUREMENTS OF THE FIRST TWELVE QUARTERS. <i>Astrophysical Journal, Supplement Series</i> , 2013, 208, 16.	7.7	147
34	Recent Kepler Results On Circumbinary Planets. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 125-132.	0.0	7
35	Transiting circumbinary planets Kepler-34 b and Kepler-35 b. <i>Nature</i> , 2012, 481, 475-479.	27.8	385
36	PLANET OCCURRENCE WITHIN 0.25 AU OF SOLAR-TYPE STARS FROM <i>KEPLER</i>. <i>Astrophysical Journal, Supplement Series</i> , 2012, 201, 15.	7.7	871

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37	<i>KEPLER</i> ECLIPSING BINARY STARS. III. CLASSIFICATION OF <i>KEPLER</i> ECLIPSING BINARY LIGHT CURVES WITH LOCALLY LINEAR EMBEDDING. <i>Astronomical Journal</i> , 2012, 143, 123.	4.7	144
38	TRANSIT TIMING OBSERVATIONS FROM <i>KEPLER</i>. II. CONFIRMATION OF TWO MULTIPLANET SYSTEMS VIA A NON-PARAMETRIC CORRELATION ANALYSIS. <i>Astrophysical Journal</i> , 2012, 750, 113.	4.5	94
39	Kepler-47: A Transiting Circumbinary Multiplanet System. <i>Science</i> , 2012, 337, 1511-1514.	12.6	312
40	THE NEPTUNE-SIZED CIRCUMBINARY PLANET KEPLER-38b. <i>Astrophysical Journal</i> , 2012, 758, 87.	4.5	213
41	<i>KEPLER</i> STUDIES OF LOW-MASS ECLIPSING BINARIES. I. PARAMETERS OF THE LONG-PERIOD BINARY KIC 6131659. <i>Astrophysical Journal</i> , 2012, 761, 157.	4.5	30
42	Transit timing observations from Keplerâ€¢ III. Confirmation of four multiple planet systems by a Fourier-domain study of anticorrelated transit timing variations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 421, 2342-2354.	4.4	151
43	<i>KEPLER</i> MISSION STELLAR AND INSTRUMENT NOISE PROPERTIES. <i>Astrophysical Journal, Supplement Series</i> , 2011, 197, 6.	7.7	175
44	<i>KEPLER</i>'S FIRST ROCKY PLANET: KEPLER-10b. <i>Astrophysical Journal</i> , 2011, 729, 27.	4.5	473
45	SPIN-ORBIT ALIGNMENT FOR THE CIRCUMBINARY PLANET HOST KEPLER-16 A. <i>Astrophysical Journal Letters</i> , 2011, 741, L1.	8.3	75
46	A closely packed system of low-mass, low-density planets transiting Kepler-11. <i>Nature</i> , 2011, 470, 53-58.	27.8	553
47	KOI-126: A Triply Eclipsing Hierarchical Triple with Two Low-Mass Stars. <i>Science</i> , 2011, 331, 562-565.	12.6	203
48	Kepler-16: A Transiting Circumbinary Planet. <i>Science</i> , 2011, 333, 1602-1606.	12.6	608
49	KEPLER-18b, c, AND d: A SYSTEM OF THREE PLANETS CONFIRMED BY TRANSIT TIMING VARIATIONS, LIGHT CURVE VALIDATION, <i>WARM-SPITZER</i> PHOTOMETRY, AND RADIAL VELOCITY MEASUREMENTS. <i>Astrophysical Journal, Supplement Series</i> , 2011, 197, 7.	7.7	171
50	<i>KEPLER</i> ECLIPSING BINARY STARS. II. 2165 ECLIPSING BINARIES IN THE SECOND DATA RELEASE. <i>Astronomical Journal</i> , 2011, 142, 160.	4.7	358
51	KOI-54: THE <i>KEPLER</i> DISCOVERY OF TIDALLY EXCITED PULSATIONS AND BRIGHTENINGS IN A HIGHLY ECCENTRIC BINARY. <i>Astrophysical Journal, Supplement Series</i> , 2011, 197, 4.	7.7	192
52	<i>KEPLER</i> ECLIPSING BINARY STARS. I. CATALOG AND PRINCIPAL CHARACTERIZATION OF 1879 ECLIPSING BINARIES IN THE FIRST DATA RELEASE. <i>Astronomical Journal</i> , 2011, 141, 83.	4.7	417
53	DETECTION OF KOI-13.01 USING THE PHOTOMETRIC ORBIT. <i>Astronomical Journal</i> , 2011, 142, 195.	4.7	113
54	Kepler Planet-Detection Mission: Introduction and First Results. <i>Science</i> , 2010, 327, 977-980.	12.6	2,848

#	ARTICLE	IF	CITATIONS
55	System Parameters of the Transiting Extrasolar Planet HD 209458b. <i>Astrophysical Journal</i> , 2005, 632, 1157-1167.	4.5	78