## **David F Phillips**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A laser frequency comb that enables radial velocity measurements with a precision of 1 cm s-1. Nature, 2008, 452, 610-612.	27.8	391
2	State of the Field: Extreme Precision Radial Velocities. Publications of the Astronomical Society of the Pacific, 2016, 128, 066001.	3.1	253
3	THE MASS OF Kepler-93b AND THE COMPOSITION OF TERRESTRIAL PLANETS. Astrophysical Journal, 2015, 800, 135.	4.5	211
4	THE KEPLER-10 PLANETARY SYSTEM REVISITED BY HARPS-N: A HOT ROCKY WORLD AND A SOLID NEPTUNE-MASS PLANET. Astrophysical Journal, 2014, 789, 154.	4.5	164
5	HARPS-N OBSERVES THE SUN AS A STAR. Astrophysical Journal Letters, 2015, 814, L21.	8.3	112
6	CHARACTERIZING K2 PLANET DISCOVERIES: A SUPER-EARTH TRANSITING THE BRIGHT K DWARF HIP 116454. Astrophysical Journal, 2015, 800, 59.	4.5	104
7	Diffusion-Induced Ramsey Narrowing. Physical Review Letters, 2006, 96, 043601.	7.8	103
8	An Ultra-short Period Rocky Super-Earth with a Secondary Eclipse and a Neptune-like Companion around K2-141. Astronomical Journal, 2018, 155, 107.	4.7	103
9	Three's Company: An Additional Non-transiting Super-Earth in the Bright HD 3167 System, and Masses for All Three Planets. Astronomical Journal, 2017, 154, 122.	4.7	90
10	A 1.9 EARTH RADIUS ROCKY PLANET AND THE DISCOVERY OF A NON-TRANSITING PLANET IN THE KEPLER-20 SYSTEM*. Astronomical Journal, 2016, 152, 160.	4.7	85
11	Coherent-population-trapping resonances with linearly polarized light for all-optical miniature atomic clocks. Physical Review A, 2010, 81, .	2.5	84
12	Calibration of an astrophysical spectrograph below 1 m/s using a laser frequency comb. Optics Express, 2012, 20, 13711.	3.4	80
13	KEPLER-21b: A ROCKY PLANET AROUND A VÂ=Â8.25 mag STAR*. Astronomical Journal, 2016, 152, 204.	4.7	80
14	Limits on isotropic Lorentz violation in QED from collider physics. Physical Review D, 2009, 80, .	4.7	77
15	A giant impact as the likely origin of different twins in the Kepler-107 exoplanet system. Nature Astronomy, 2019, 3, 416-423.	10.1	64
16	Particle-Accelerator Constraints on Isotropic Modifications of the Speed of Light. Physical Review Letters, 2009, 102, 170402.	7.8	61
17	HARPS-N Solar RVs Are Dominated by Large, Bright Magnetic Regions. Astrophysical Journal, 2019, 874, 107.	4.5	59
18	THE ORBIT AND MASS OF THE THIRD PLANET IN THE KEPLER-56 SYSTEM. Astronomical Journal, 2016, 152, 165.	4.7	58

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19	The Kepler-19 System: A Thick-envelope Super-Earth with Two Neptune-mass Companions Characterized Using Radial Velocities and Transit Timing Variations. Astronomical Journal, 2017, 153, 224.	4.7	58
20	THE KEPLER-454 SYSTEM: A SMALL, NOT-ROCKY INNER PLANET, A JOVIAN WORLD, AND A DISTANT COMPANION. Astrophysical Journal, 2016, 816, 95.	4.5	55
21	Toward a broadband astro-comb: effects of nonlinear spectral broadening in optical fibers. Optics Express, 2010, 18, 12736.	3.4	48
22	Operation of a broadband visible-wavelength astro-comb with a high-resolution astrophysical spectrograph. Optica, 2015, 2, 250.	9.3	48
23	Visible wavelength astro-comb. Optics Express, 2010, 18, 19175.	3.4	42
24	Three-photon-absorption resonance for all-optical atomic clocks. Physical Review A, 2005, 72, .	2.5	36
25	In-situ determination of astro-comb calibrator lines to better than 10 cm s^-1. Optics Express, 2010, 18, 13239.	3.4	35
26	Electromagnetically induced transparency with noisy lasers. Physical Review A, 2009, 80, .	2.5	31
27	Temporal evolution and correlations of optical activity indicators measured in Sun-as-a-star observations. Astronomy and Astrophysics, 2019, 627, A118.	5.1	31
28	Improved constraints on isotropic shift and anisotropies of the speed of light using rotating cryogenic sapphire oscillators. Physical Review D, 2010, 82, .	4.7	28
29	Optimization of filtering schemes for broadband astro-combs. Optics Express, 2012, 20, 24987.	3.4	22
30	An astro-comb calibrated solar telescope to search for the radial velocity signature of Venus. Proceedings of SPIE, 2016, , .	0.8	22
31	Identifying Exoplanets with Deep Learning. IV. Removing Stellar Activity Signals from Radial Velocity Measurements Using Neural Networks. Astronomical Journal, 2022, 164, 49.	4.7	20
32	Detection Limits of Low-mass, Long-period Exoplanets Using Gaussian Processes Applied to HARPS-N Solar Radial Velocities. Astronomical Journal, 2021, 161, 287.	4.7	17
33	Probing Dark Matter Using Precision Measurements of Stellar Accelerations. Physical Review Letters, 2019, 123, 091101.	7.8	16
34	Directional detection of dark matter with diamond. Quantum Science and Technology, 2021, 6, 024011.	5.8	15
35	MilkyÂWay Accelerometry via Millisecond Pulsar Timing. Physical Review Letters, 2021, 126, 141103.	7.8	14
36	Conjugate Fabry–Perot cavity pair for improved astro-comb accuracy. Optics Letters, 2012, 37, 3090.	3.3	12

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37	High-Precision Mapping of Diamond Crystal Strain Using Quantum Interferometry. Physical Review Applied, 2022, 17, .	3.8	11
38	Visible-Spanning Flat Supercontinuum for Astronomical Applications. Journal of Lightwave Technology, 2018, 36, 5309-5315.	4.6	10
39	Long-term stellar activity variations and their effect on radial-velocity measurements. Monthly Notices of the Royal Astronomical Society, 2021, 505, 830-850.	4.4	10
40	Ultraheavy dark matter search with electron microscopy of geological quartz. Physical Review D, 2021, 104, .	4.7	10
41	Estimating Magnetic Filling Factors from Simultaneous Spectroscopy and Photometry: Disentangling Spots, Plage, and Network. Astrophysical Journal, 2021, 920, 21.	4.5	10
42	Astro-comb calibrator and spectrograph characterization using a turn-key laser frequency comb. Journal of Astronomical Telescopes, Instruments, and Systems, 2017, 3, 1.	1.8	9
43	Calibration of an echelle spectrograph with an astro-comb: a laser frequency comb with very high repetition rate. , 2012, , .		6
44	Scanning X-Ray Diffraction Microscopy for Diamond Quantum Sensing. Physical Review Applied, 2021, 16, .	3.8	6
45	Green astro-comb for HARPS-N. , 2014, , .		5
46	High-resolution Fourier transform spectrograph for characterization of echelle spectrograph wavelength calibrators. , 2012, , .		4
47	Green astro-comb for HARPS-N. Proceedings of SPIE, 2012, , .	0.8	4
48	A green astro-comb for Earth-like exoplanet searches. , 2014, , .		3
49	Astro-comb: revolutionizing precision spectroscopy in astrophysics. Proceedings of the International Astronomical Union, 2008, 4, 499-501.	0.0	Ο
50	Femtosecond laser frequency comb for precision calibration of HARPS-N. , 2014, , .		0
51	IMPROVED TESTS OF LORENTZ AND CPT SYMMETRY USING NOBLE-GAS MASERS. , 2008, , .		Ο
52	IVES-STILWELL FOR THE NEW MILLENNIUM. , 2008, , .		0
53	TESTS OF FUNDAMENTAL SYMMETRIES USING NOBLE GAS MASERS. , 2010, , .		0
54	A broadband green astro-comb for sub-10 cm/s calibration on astrophysical spectrographs. , 2013, , .		0